

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural  
Resources Department

Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised August 24, 2018  
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party: <b>Enterprise Field Services, LLC</b>	OGRID: <b>151618</b>
Contact Name: <b>Thomas Long</b>	Contact Telephone: <b>505-599-2286</b>
Contact email: <b>tjlong@eprod.com</b>	<b>Incident # (assigned by OCD): NRM2035349510</b>
Contact mailing address: <b>614 Reilly Ave, Farmington, NM 87401</b>	

### Location of Release Source

Latitude **36.639644** Longitude **-107.784244** (NAD 83 in decimal degrees to 5 decimal places)

Site Name <b>Lateral C-6 Loop</b>	Site Type <b>Natural Gas Gathering Pipeline</b>
Date Release Discovered: <b>12/1/2020</b>	Serial Number (if applicable): <b>N/A</b>

Unit Letter	Section	Township	Range	County
<b>D</b>	<b>27</b>	<b>28N</b>	<b>9W</b>	<b>San Juan</b>

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: **BLM**)

### Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input checked="" type="checkbox"/> Condensate	Volume Released (bbls): <b>3-5 Barrels</b>	Volume Recovered (bbls): <b>None</b>
<input checked="" type="checkbox"/> Natural Gas	Volume Released (Mcf): <b>1 MCF</b>	Volume Recovered (Mcf): <b>None</b>
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units):	Volume/Weight Recovered (provide units)

**Cause of Release:** On December 1, 2020, Enterprise had a release of natural gas and natural gas liquids from the Lateral C-6 Loop pipeline. Minimal amount of fluids were release to the ground surface. No washes/waterways were affected. The pipeline was isolated, depressurized, locked and tagged out. Enterprise began repairs and remediation December 4, 2020 and determined this release reportable per NMOCDD regulation, due to the volume of impacted subsurface soil. The final excavation dimensions measured approximately 9 feet long by 6 feet wide by 3 feet deep. Approximately 12 cubic yards of hydrocarbon impacted soil was excavated and transported to a New Mexico Oil Conservation Division (NMOCDD) approved land farm. A third party closure report is included with this "Final." C-141.

State of New Mexico  
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Jon E. Fields

Title: Director, Environmental

Signature: 

Date: 3/4/2021

email: jefields@eprod.com

Telephone: (713) 381-6684

**OCD Only**

Received by: \_\_\_\_\_

Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: \_\_\_\_\_

Date: 01/24/2022

Printed Name: Jennifer Nobui

Title: Environmental Specialist A



## CLOSURE REPORT

Property:

**Lateral C-6 Loop (12/01/20)  
NW 1/4, S27 T28N R9W  
San Juan County, New Mexico**

January 27, 2021  
Ensolum Project No. 05A1226128

Prepared for:

**Enterprise Field Services, LLC  
614 Reilly Avenue  
Farmington, NM 87401  
Attn: Mr. Thomas Long**

Prepared by:

A handwritten signature in blue ink, appearing to read "Chad D'Aponti".

---

Chad D'Aponti  
Environmental Scientist

A handwritten signature in purple ink, appearing to read "Kyle Summers".

---

Kyle Summers, CPG  
Sr. Project Manager

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Figure C	300 Foot Radius Watercourse and Drainage Identification
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Figure E	Water Well and Natural Spring Location
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### **Appendix C: Executed C-138 Solid Waste Acceptance Form**

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### **Appendix F: Table 1 - Soil Analytical Summary**

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## CLOSURE REPORT

**Lateral C-6 Loop (12/01/20)  
NW ¼, S27 T28N R9W  
San Juan County, New Mexico**

**Ensolum Project No. 05A1226128**

### 1.0 INTRODUCTION

#### 1.1 Site Description & Background

<b>Operator:</b>	Enterprise Field Services, LLC / Enterprise Products Operating LLC (Enterprise)
<b>Site Name:</b>	Lateral C-6 Loop (12/01/20) (Site)
<b>Incident ID</b>	NRM2035349510
<b>Location:</b>	36.639644 ° North, 107.784244 ° West Northwest (NW) ¼ of Section 27, Township 28 North, Range 9 West San Juan County, New Mexico
<b>Property:</b>	United States Bureau of Land Management (BLM)
<b>Regulatory:</b>	New Mexico Energy, Minerals and Natural Resources Department (EMNRD) Oil Conservation Division (OCD)

On December 1, 2020, a release of natural gas was identified on the Lateral C-6 Loop pipeline. Enterprise subsequently isolated and locked the pipeline out of service. On December 4, 2020, Enterprise initiated activities to facilitate the repair of the pipeline and remediate potential petroleum hydrocarbon impact resulting from the release.

A **Topographic Map** depicting the location of the Site is included as **Figure 1**, and a **Site Vicinity Map** is included as **Figure 2** in **Appendix A**.

#### 1.2 Project Objective

The primary objective of the closure activities was to reduce constituent of concern (COC) concentrations in the on-site soils to below the applicable New Mexico EMNRD OCD closure criteria.

### 2.0 CLOSURE CRITERIA

The Site is subject to regulatory oversight by the New Mexico EMNRD OCD. To address the activities related to oil and gas releases, the New Mexico EMNRD OCD references New Mexico Administrative Code (NMAC) 19.15.29 *Releases*, which establishes investigation and abatement action requirements for oil and gas release sites that are subject to reporting and/or corrective action. Ensolum, LLC (Ensolum) utilized information provided by Enterprise, the general site characteristics, information available from the New Mexico Office of the State Engineer (OSE), and the New Mexico EMNRD OCD imaging database to determine the appropriate closure criteria for the Site. Supporting figures and documentation associated with the following bullets are provided in **Appendix B**.

- The OSE tracks the usage and assignment of water rights and water well installations and records this information in the Water Rights Reporting System (WRRS) database. Water wells and other points of diversion (PODs) are each assigned POD numbers in the database (which is searchable

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and includes an interactive map). No PODs were identified within a one (1) mile radius of the Site in the OSE WRRS database. In addition, no PODs were identified in adjacent Public Land Survey System (PLSS) sections (**Figure A, Appendix B**).

- Nine (9) cathodic protection wells were identified within one (1) mile of the Site or in adjacent PLSS sections. The closest cathodic protection well (Hancock #3A) is located approximately 0.8 miles northeast of the Site and at a lower elevation (6,165 feet, based on the well record) than the Site (6,977 feet). The record for this cathodic well indicates a depth to water of approximately 40 feet below grade surface (bgs). The remaining cathodic well records for wells located over one (1) mile of the Site indicate water depths ranging from 40 feet bgs to 360 feet bgs (**Figure B, Appendix B**).
- The Site is not located within a New Mexico EMNRD OCD-defined continuously flowing watercourse (**Figure C, Appendix B**).
- The Site is not located within 200 feet of a lakebed, sinkhole, or playa lake.
- The Site is not located within 300 feet of a permanent residence, school, hospital, institution, or church (**Figure D, Appendix B**).
- No springs, or private domestic fresh water wells used by less than five (5) households for domestic or stock watering purposes were identified within 500 feet of the Site (**Figure E, Appendix B**).
- No fresh water wells or springs were identified within 1,000 feet of the Site (**Figure E, Appendix B**).
- The Site is not located within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to New Mexico Statutes Annotated (NMSA) 1978, Section 3-27-3.
- Based on information identified in the U.S. Fish & Wildlife Service National Wetlands Inventory Wetlands Mapper, the Site is not located within 300 feet of a wetland (**Figure F, Appendix B**).
- Based on information identified in the New Mexico Mining and Minerals Division's Geographic Information System (GIS) Maps and Mine Data database, the Site is not located within an area overlying a subsurface mine (**Figure G, Appendix B**).
- The Site is not located within an unstable area.
- Based on information identified in the Federal Emergency Management Agency (FEMA) National Flood Hazard Layer (NFHL) geospatial database, the Site is not located within a 100-year floodplain (**Figure H, Appendix B**).

Based on the identified siting criteria, the depth to water at the Site is estimated to be greater than 100 feet bgs. However, soil requirements of NMAC 19.15.29.13(D)(1) indicate that a minimum of the upper four (4) feet must contain "uncontaminated" soil and that the soils meet Tier I closure criteria listed in Table 1 of NMAC 19.15.29.12. Petroleum hydrocarbon impact was not encountered below three (3) feet bgs, resulting in the following soil zone closure criteria:

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Closure Criteria for Soils Impacted by a Release		
Constituent	Method	Limit
Chloride	EPA 300.0 or SM4500 Cl B	600 mg/kg
TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015	100 mg/kg
BTEX	EPA SW-846 Method 8021 or 8260	50 mg/kg
Benzene	EPA SW-846 Method 8021 or 8260	10 mg/kg

### 3.0 SOIL REMEDIATION ACTIVITIES

On December 4, 2020, Enterprise initiated activities to facilitate the repair of the pipeline and remediate petroleum hydrocarbon impact. During the remediation and corrective action activities, Industrial Mechanical, Inc., (IMI) provided heavy equipment and labor support, while Ensolum provided environmental consulting support.

The final excavation measured approximately nine (9) feet long and six (6) feet wide at the maximum extents. The maximum depth of the excavation measured approximately three (3) feet bgs.

The lithology encountered during the completion of remediation activities consisted primarily of unconsolidated silty sand underlain by sandstone.

Approximately 12 cubic yards of petroleum hydrocarbon affected soils and six (6) barrels (bbls) of hydro-excavation soil cuttings and water were transported to the Envirotech, Inc., (Envirotech) landfarm near Hilltop, New Mexico for disposal/remediation. The executed C-138 solid waste acceptance form is provided in **Appendix C**. The excavation was backfilled with imported fill and then contoured to the surrounding grade.

The map in **Figure 3 (Appendix A)** identifies approximate soil sample locations and depicts the approximate dimensions of the excavation with respect to the pipeline (**Appendix A**). Photographic documentation of the field activities is included in **Appendix D**.

### 4.0 SOIL SAMPLING PROGRAM

Ensolum field screened the soil samples from the excavation utilizing a calibrated Dexsil PetroFLAG® hydrocarbon analyzer system and a photoionization detector (PID) fitted with a 10.6 eV lamp to guide excavation extents.

Ensolum's soil sampling program included the collection of five (5) composite soil samples (S-1 through S-5) from the excavation for laboratory analysis. The composite samples were comprised of five (5) aliquots each and represent an estimated 200 square foot sample area per guidelines outlined in 19.15.29.12 Section D NMAC. A clean shovel was utilized to obtain fresh aliquots from each area of the excavation.

On December 4, 2020, sampling was performed at the Site. The BLM and New Mexico EMNRD OCD were notified of the sampling event although no representatives were present during sampling activities. The regulatory correspondence is provided in **Appendix E**.

Composite soil samples S-1 (0'-3'), S-2 (0'-3'), S-3 (0'-3'), and S-4 (0'-3') were collected from the walls of the excavation. Composite soil sample S-5 (3') was collected from the floor of excavation.

The soil samples were placed in laboratory prepared glassware. The containers were labeled and sealed using the laboratory supplied labels and custody seals and were stored on ice in a cooler. The samples

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were relinquished to the courier for Hall Environmental Analysis Laboratory of Albuquerque, New Mexico, under proper chain-of-custody procedures.

## 5.0 SOIL LABORATORY ANALYTICAL METHODS

The composite soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX) using Environmental Protection Agency (EPA) SW-846 Method #8260; TPH gasoline range organics (GRO), diesel range organics (DRO), and motor oil/lube oil range organics (MRO) using EPA SW-846 Method #8015; and chlorides using EPA Method #300.0.

The laboratory analytical results are summarized in **Table 1** in **Appendix F**. The laboratory data sheets and executed chain-of-custody forms are provided in **Appendix G**.

## 6.0 DATA EVALUATION

Ensolum compared the BTEX, TPH, and chloride laboratory analytical results or laboratory practical quantitation limits (PQLs) / reporting limits (RLs) associated with the composite soil samples (S-1 through S-5) to the applicable New Mexico EMNRD OCD closure criteria.

- The laboratory analytical results for the composite soil samples indicate benzene is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 10 milligrams per kilogram (mg/kg).
- The laboratory analytical results for the composite soil samples indicate total BTEX is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 50 mg/kg.
- The laboratory analytical results for the composite soil samples indicate combined TPH GRO/DRO/MRO is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 100 mg/kg.
- The laboratory analytical results for the composite soil samples indicate chloride is not present at concentrations greater than the laboratory PQLs/RLs, which are less than the applicable New Mexico EMNRD OCD closure criteria of 600 mg/kg for chlorides.

The laboratory analytical results are summarized in **Table 1** (**Appendix F**).

## 7.0 RECLAMATION AND REVEGETATION

The excavation was backfilled with imported soil and then contoured to surrounding grade. The area near the well tie is a driving area.

## 8.0 FINDINGS AND RECOMMENDATION

- Five (5) composite soil samples were collected from the excavation. Based on laboratory analytical results, no benzene, BTEX, chloride, or combined TPH GRO/DRO/MRO exceedances were identified in the Site soils.

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Enterprise Field Services, LLC  
Lateral C-6 Loop (12/01/20)  
January 27, 2021



- Approximately 12 cubic yards of petroleum hydrocarbon affected soils and six (6) bbls of hydro-excavation soil cuttings and water were transported to the Envirotech landfarm for disposal/remediation. The excavation was backfilled with imported fill and then contoured to the surrounding grade.

**Based on field observations and laboratory analytical results, no additional investigation or corrective action appears warranted at this time.**

## **9.0 STANDARDS OF CARE, LIMITATIONS, AND RELIANCE**

### **9.1 Standard of Care**

Ensolum's services were performed in accordance with standards customarily provided by a firm rendering the same or similar services in the area during the same time period. Ensolum makes no warranties, express or implied, as to the services performed hereunder. Additionally, Ensolum does not warrant the work of third parties supplying information used in the report (e.g., laboratories, regulatory agencies, or other third parties).

### **9.2 Limitations**

Findings, conclusions, and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work and it should be noted that this information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, or not present during these services, and Ensolum cannot represent that the Site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during the investigation. Environmental conditions at other areas or portions of the Site may vary from those encountered at actual sample locations. Ensolum's findings and recommendation are based solely upon data available to Ensolum at the time of these services.

### **9.3 Reliance**

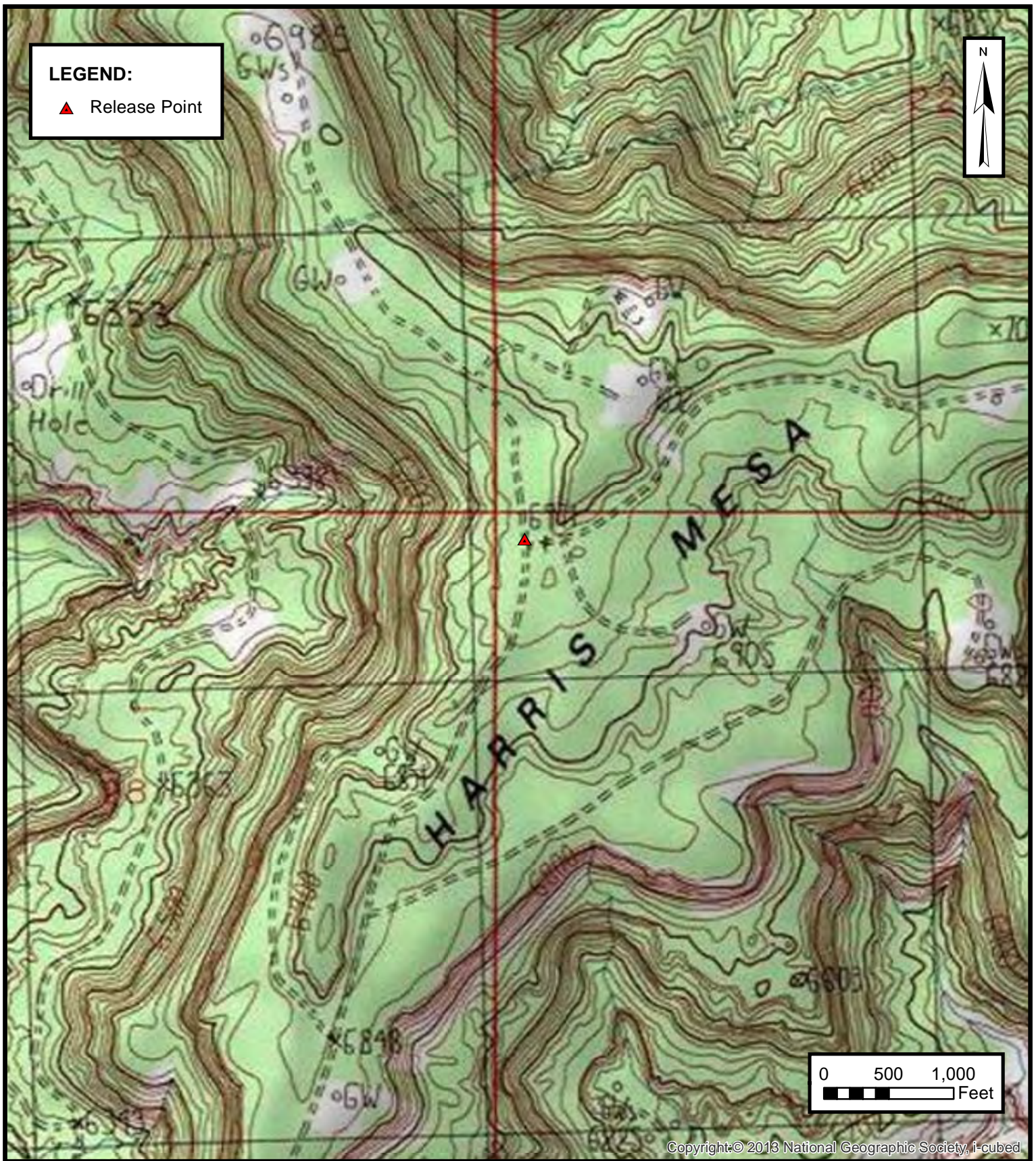
This report has been prepared for the exclusive use of Enterprise, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of Enterprise and Ensolum. Any unauthorized distribution or reuse is at the client's sole risk. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the report, and Ensolum's Master Services Agreement. The limitation of liability defined in the agreement is the aggregate limit of Ensolum's liability to the client.



## APPENDIX A

### Figures





**ENSOLUM**

Environmental & Hydrogeologic Consultants

### TOPOGRAPHIC MAP

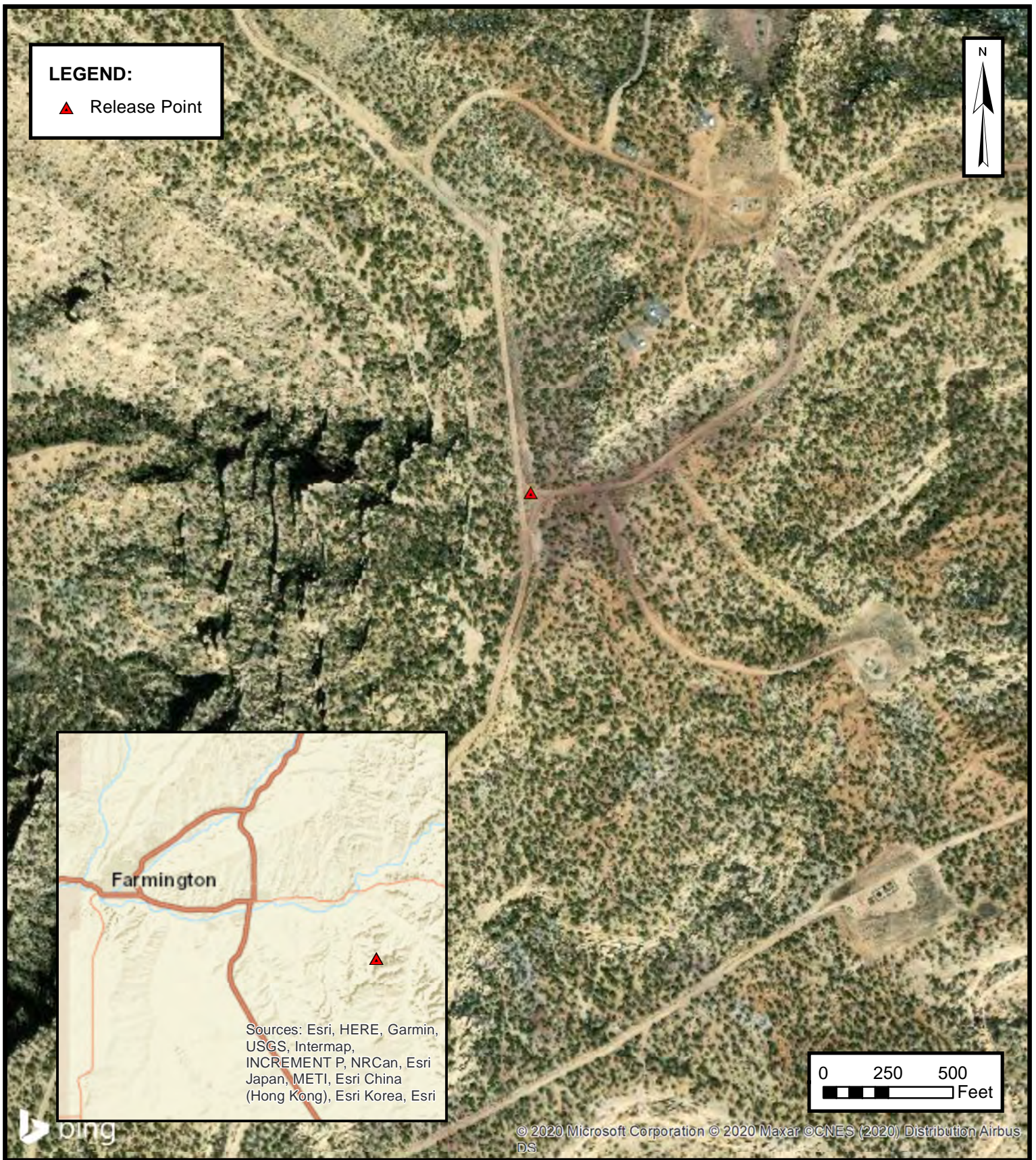
ENTERPRISE FIELD SERVICES, LLC  
 LATERAL C-6 LOOP (12/01/20)  
 NW ¼, S27 T28N R9W, San Juan County, New Mexico  
 36.639644° N, 107.784244° W

PROJECT NUMBER: 05A1226128

**FIGURE**

**1**





**SITE VICINITY MAP**

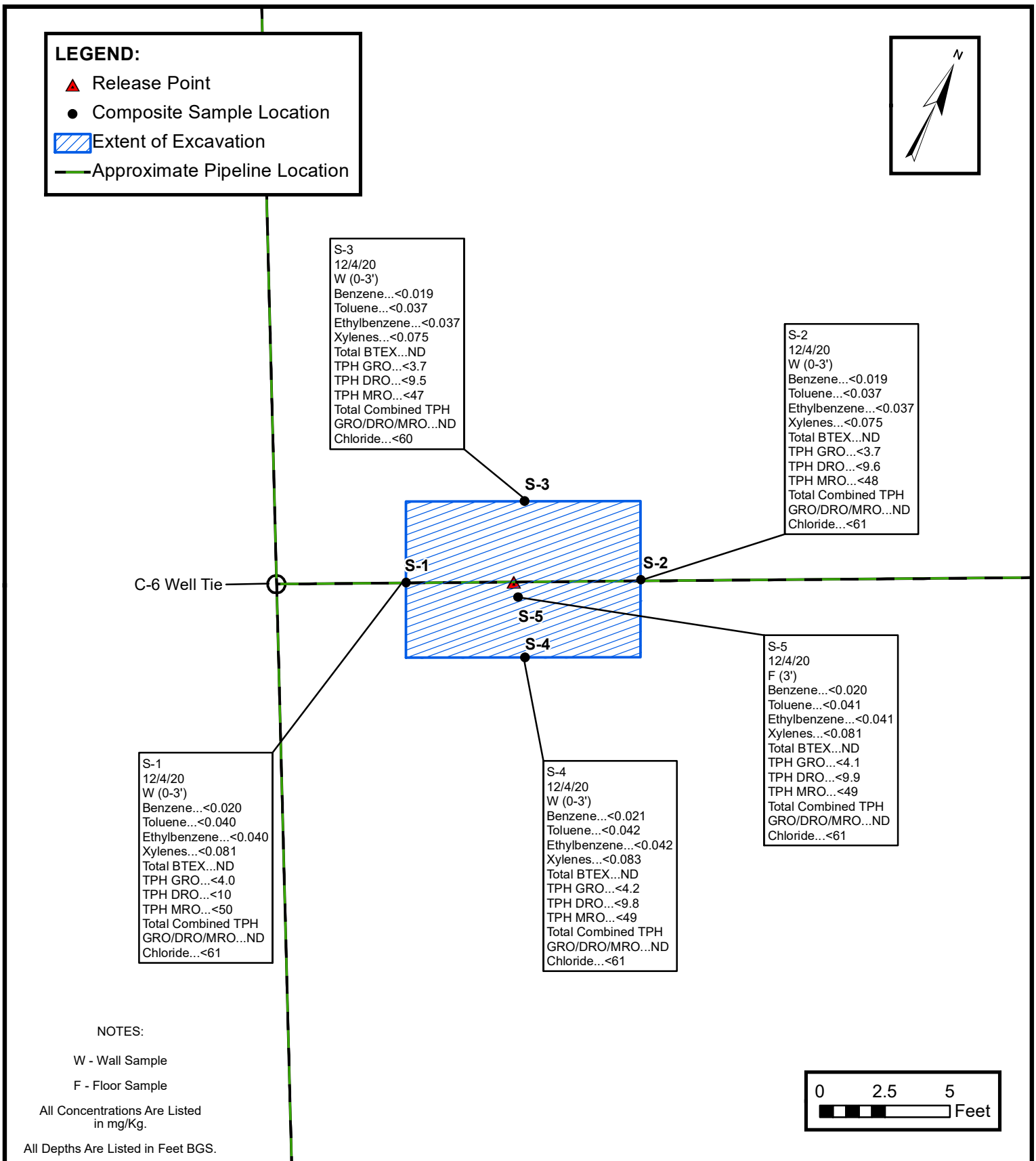
ENTERPRISE FIELD SERVICES, LLC  
LATERAL C-6 LOOP (12/01/20)  
NW ¼, S27 T28N R9W, San Juan County, New Mexico  
36.639644° N, 107.784244° W

PROJECT NUMBER: 05A1226128

**FIGURE**

**2**





### SITE MAP

ENTERPRISE FIELD SERVICES, LLC  
LATERAL C-6 LOOP (12/01/20)  
NW ¼, S27 T28N R9W, San Juan County, New Mexico  
36.639644° N, 107.784244° W

PROJECT NUMBER: 05A1226128

FIGURE

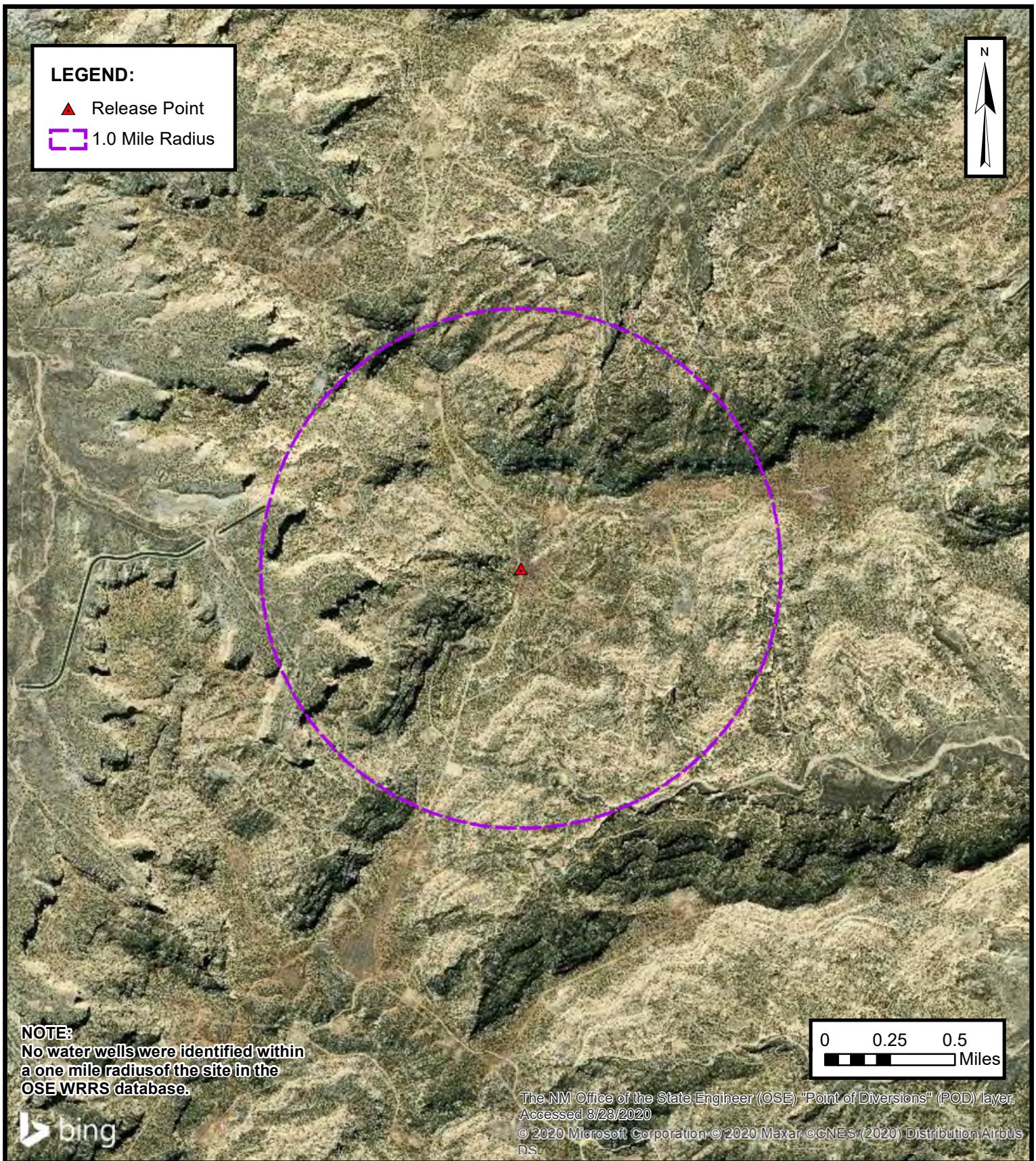
3



## APPENDIX B

### Siting Figures and Documentation





**ENSOLUM**  
Environmental & Hydrogeologic Consultants

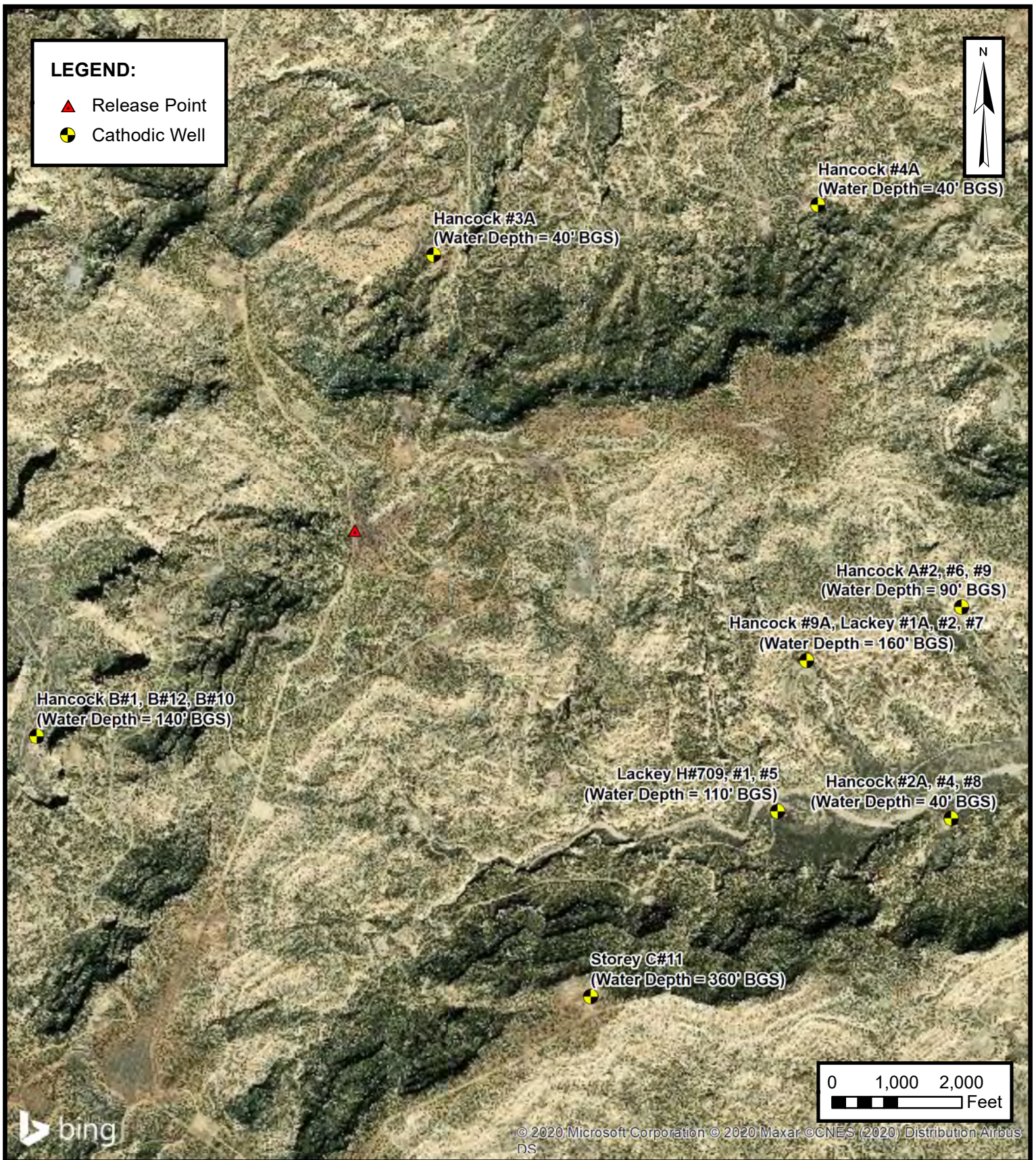
### 1.0 MILE RADIUS WATER WELL MAP

ENTERPRISE FIELD SERVICES, LLC  
LATERAL C-6 LOOP (12/01/20)  
NW ¼, S27 T28N R9W, San Juan County, New Mexico  
36.639644° N, 107.784244° W

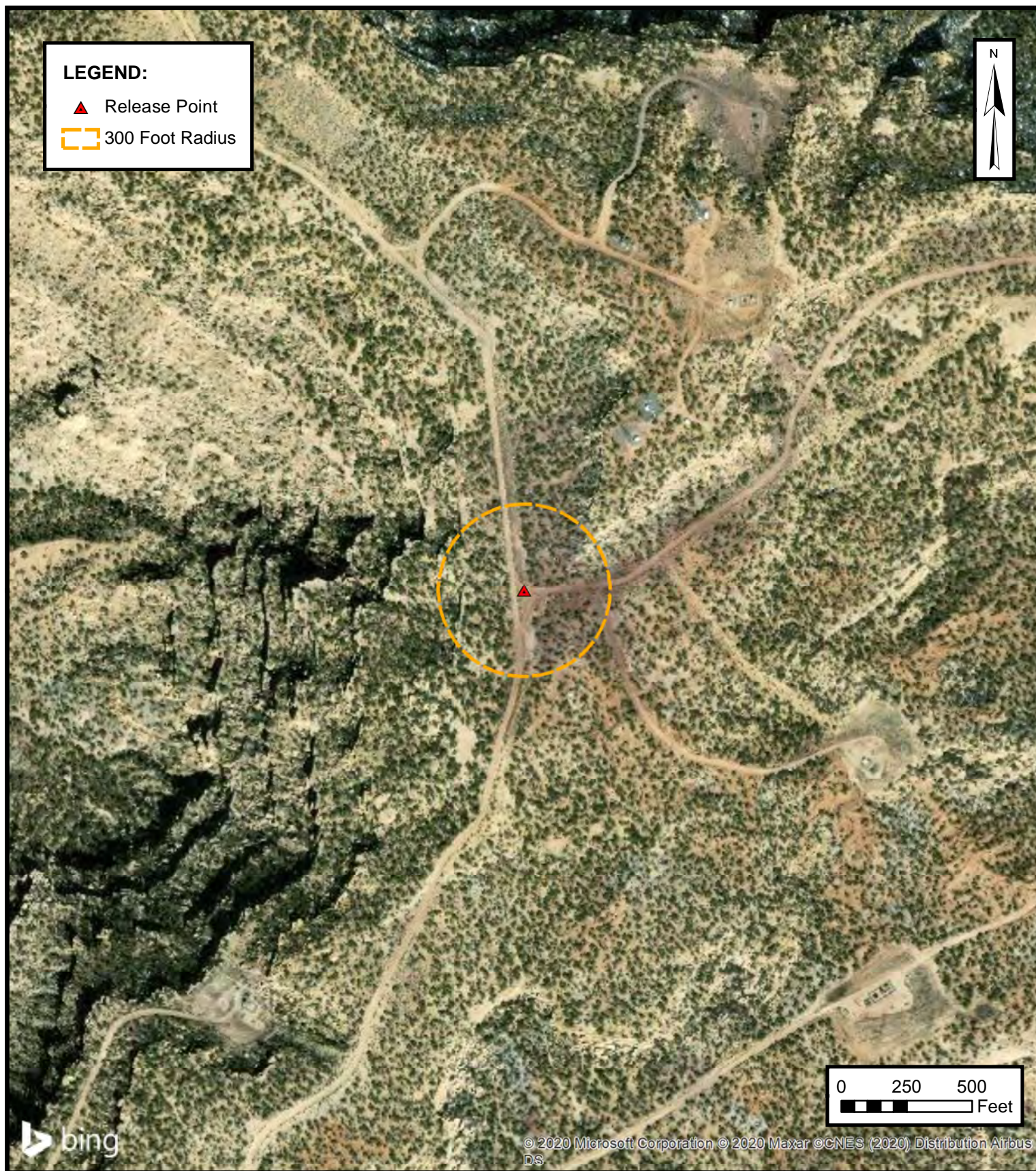
PROJECT NUMBER: 05A1226128

**FIGURE**  
**A**

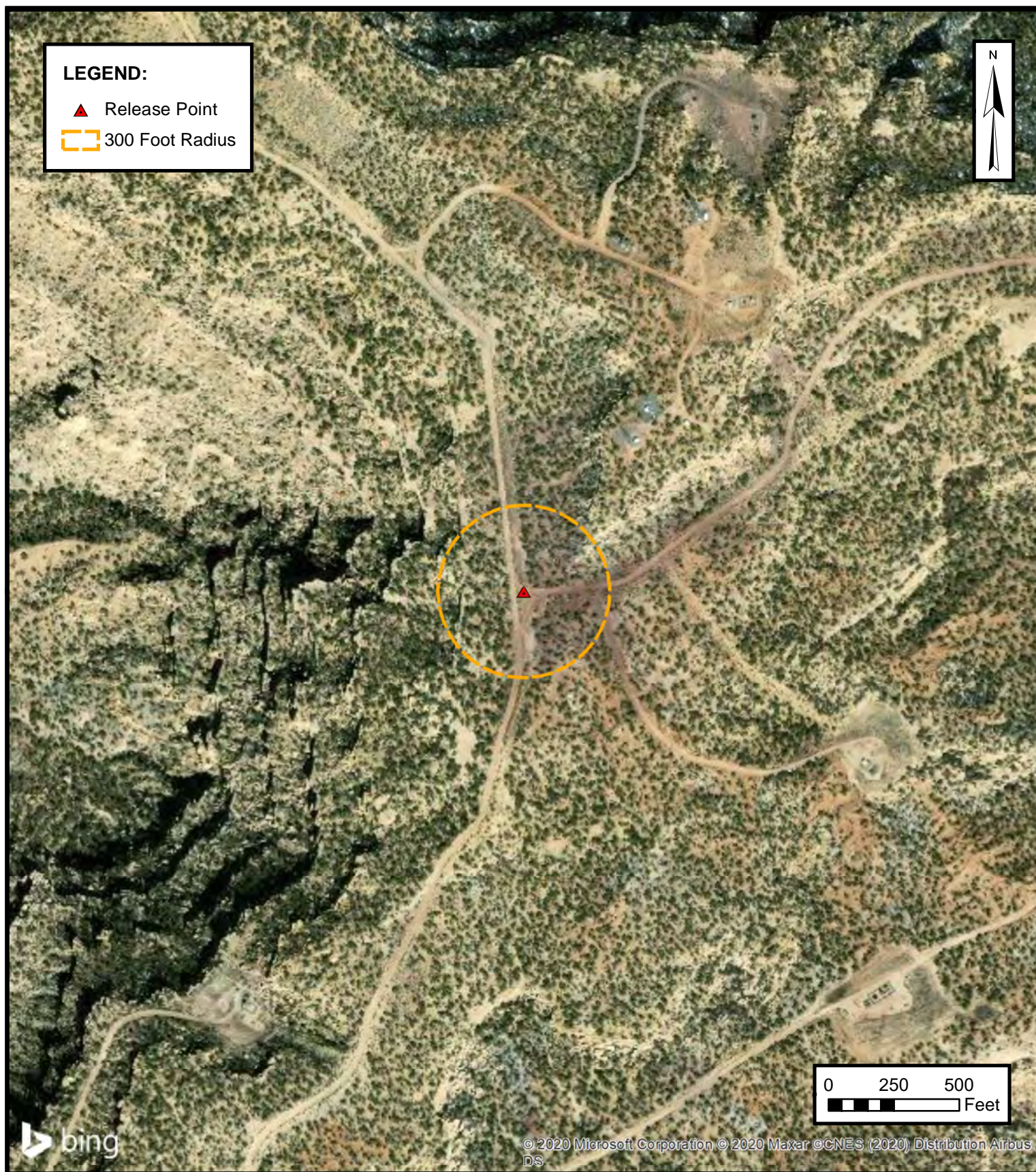




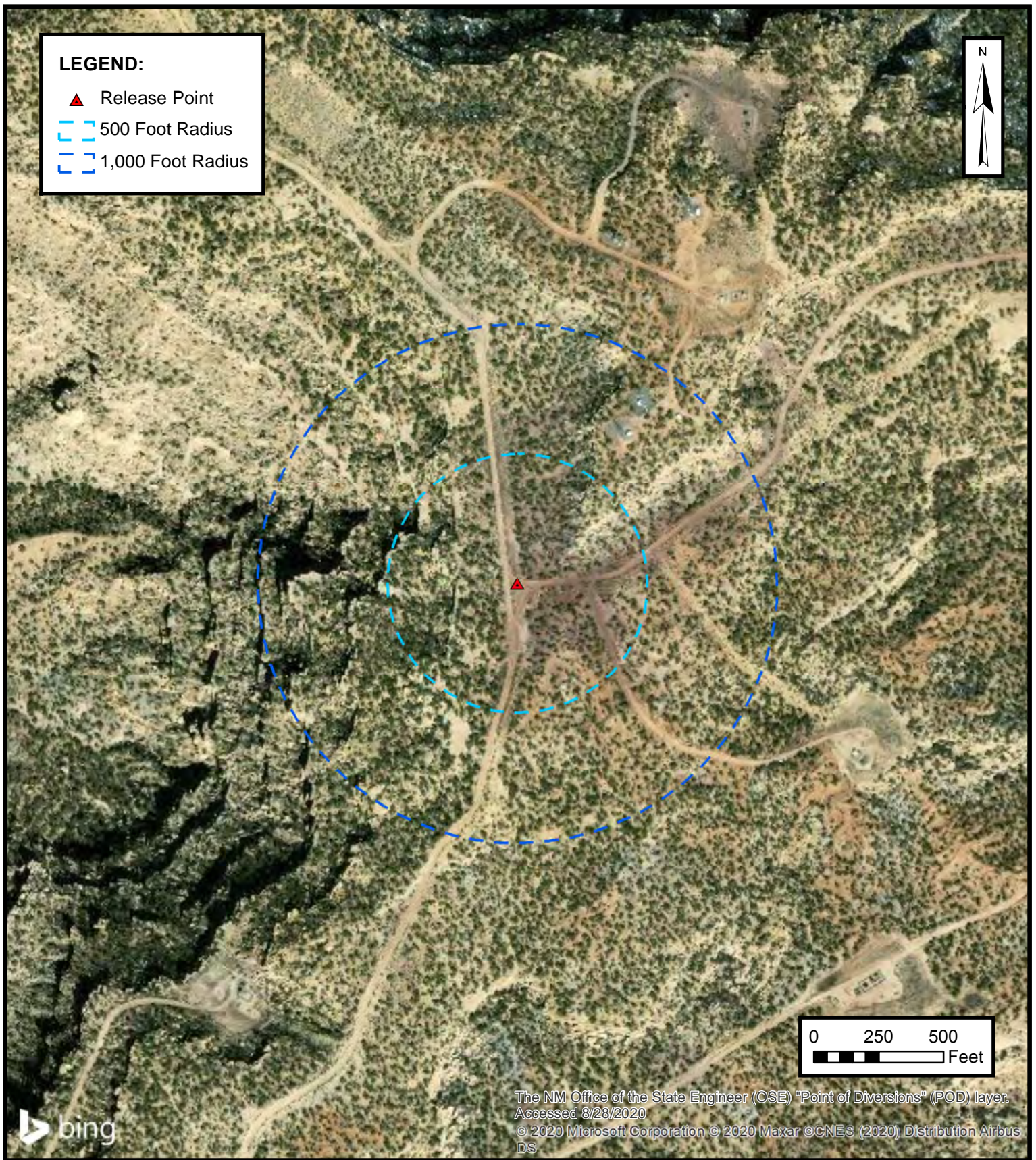












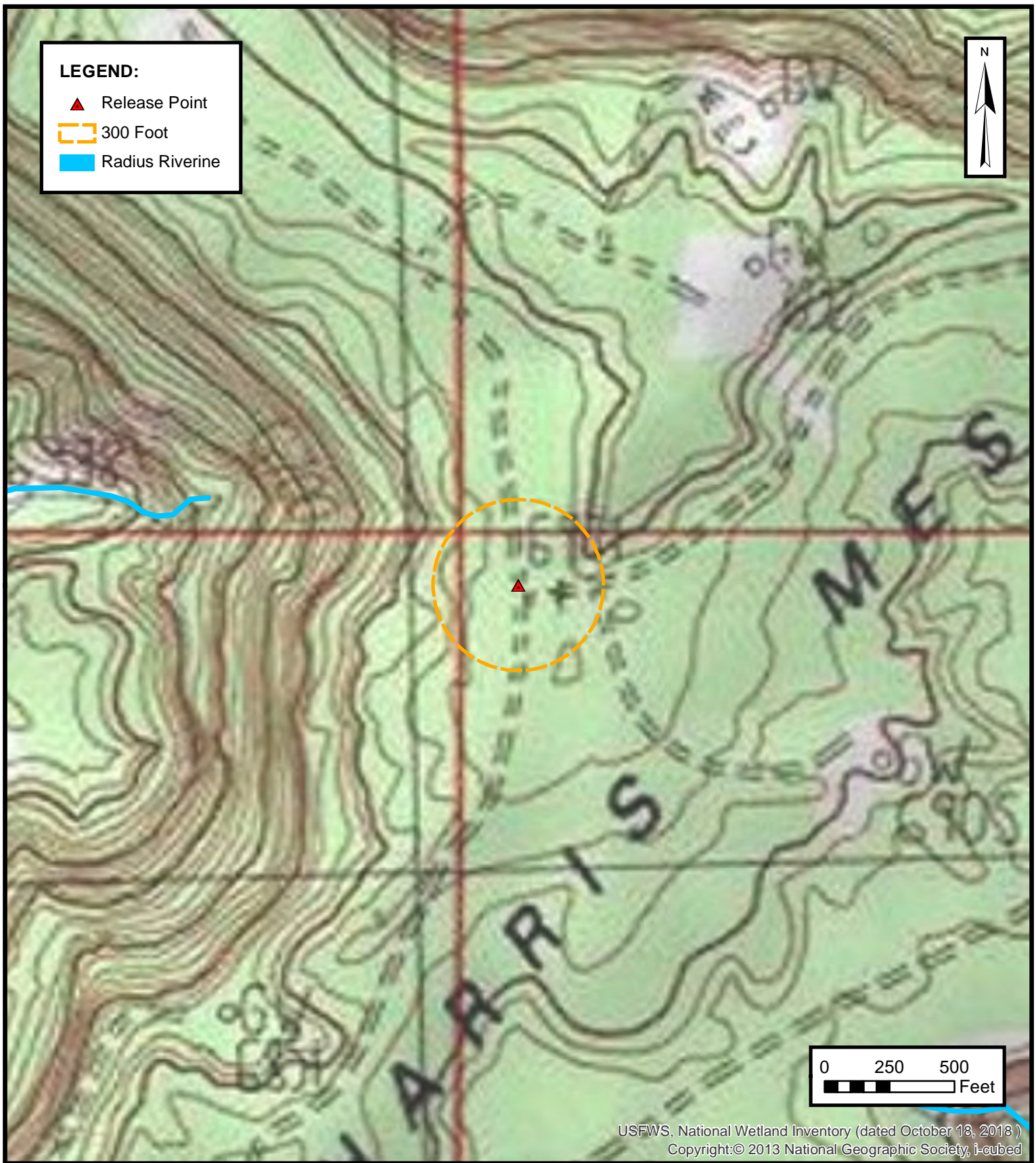
### WATER WELL AND NATURAL SPRING LOCATION

ENTERPRISE FIELD SERVICES, LLC  
LATERAL C-6 LOOP (12/01/20)  
NW ¼, S27 T28N R9W, San Juan County, New Mexico  
36.639644° N, 107.784244° W

PROJECT NUMBER: 05A1226128

**FIGURE  
E**





**ENSOLUM**  
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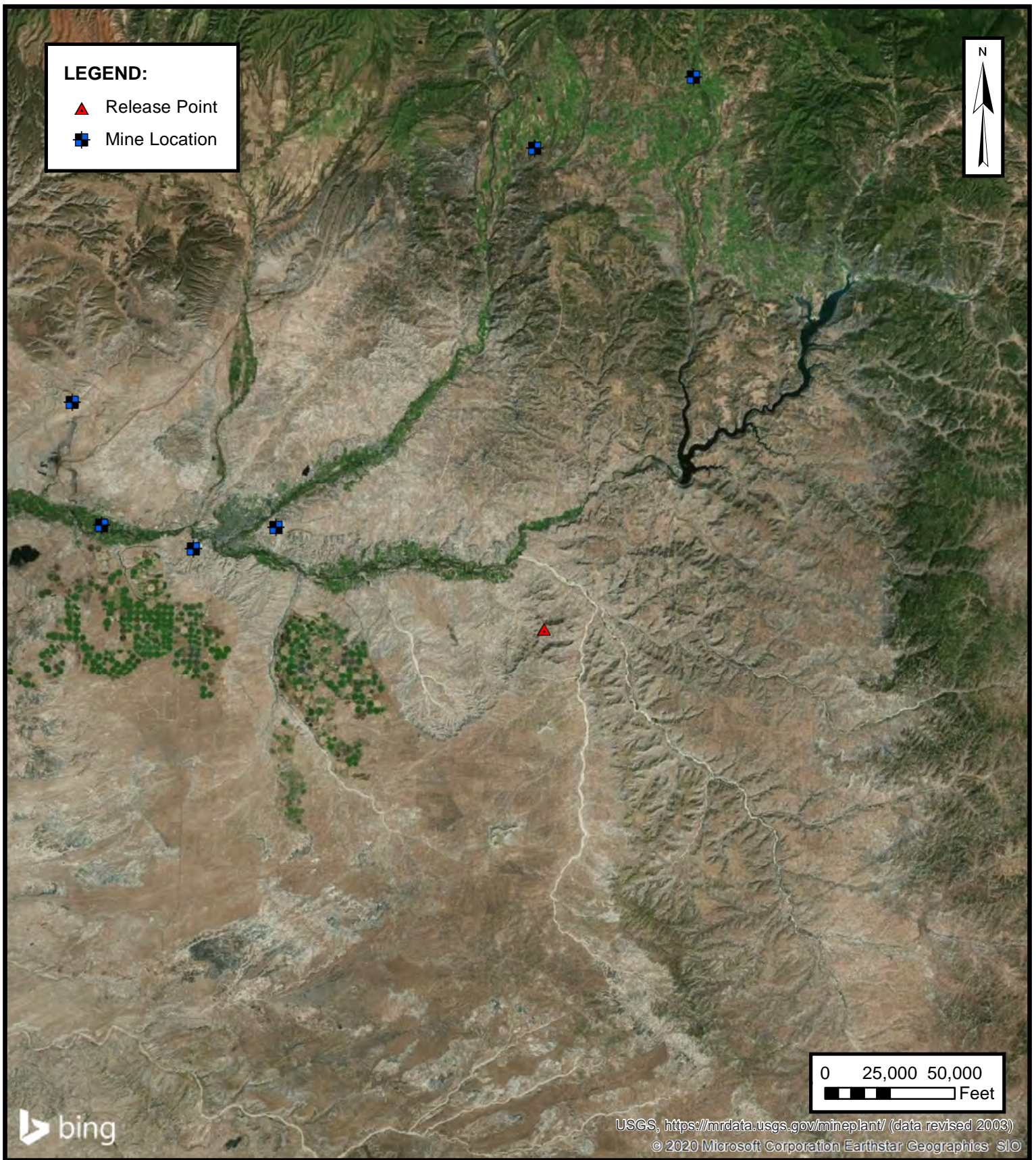
#### WETLANDS

ENTERPRISE FIELD SERVICES, LLC  
LATERAL C-6 LOOP (12/01/20)  
NW ¼, S27 T28N R9W, San Juan County, New Mexico  
36.639644° N, 107.784244° W

PROJECT NUMBER: 05A1226128

**FIGURE**  
**F**





**ENSOLUM**  
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### MINES, MILLS AND QUARRIES

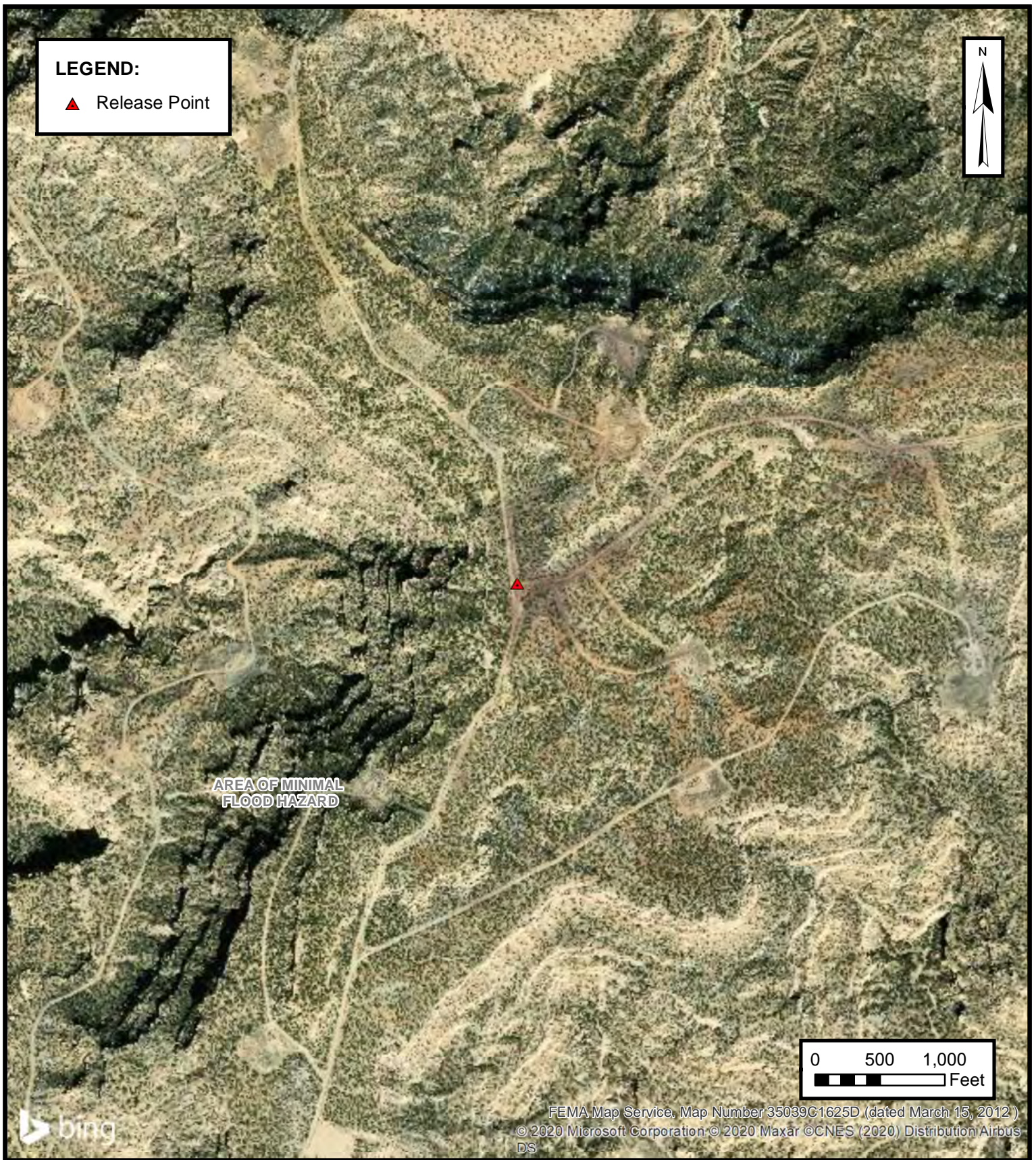
ENTERPRISE FIELD SERVICES, LLC  
LATERAL C-6 LOOP (12/01/20)  
NW ¼, S27 T28N R9W, San Juan County, New Mexico  
36.639644° N, 107.784244° W

PROJECT NUMBER: 05A1226128

FIGURE

**G**









# New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

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No records found.

**PLSS Search:**

**Section(s):** 27, 21, 22, 23,  
26, 28, 33, 34,  
35      **Township:** 28N      **Range:** 09W

---

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

---

12/8/20 8:41 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

1296

30-045-26464

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICO  
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC. Location: Unit F Sec. 22 Twp 28 Rng 9Name of Well/Wells or Pipeline Serviced ANCOCK #3A

cps 1905w

Elevation 6165' Completion Date 11/6/87 Total Depth 390' Land Type\* N/ACasing, Sizes, Types & Depths 20' OF 8" PVC SURFACE CASINGIf Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths &amp; amounts used

N/A

Depths &amp; thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 40', 100' - 140' SAMPLE TAKENDepths gas encountered: N/AType & amount of coke breeze used: N/ADepths anodes placed: 355', 345', 335', 325', 265', 255', 245', 235', 225', 170'Depths vent pipes placed: 383'Vent pipe perforations: 340'Remarks: gb #1

RECEIVED  
MAY 31 1991.

OIL CON. DIV

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Schematics should be submitted when available. Unplugged abandoned wells are to be included.

\*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.  
If Federal or Indian, add Lease Number.

PM-07-0235 (Rev. 10-82)

WELL CASING  
CATHODIC PROTECTION CONSTRUCTION REPORT  
DAILY LOGDrilling Log (Attach Hereto) ☐

T.E.G.

Completion Date 11/6/87

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
1905-W	HANCOCK #3A		.78V N.	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad
Location: NW 22-28-9	Anode Size: 2" X 60"	Anode Type: DURIUM	Size Bit: 6 3/4"	
Depth Drilled: 390'	Depth Logged: 383'	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
Anode Depth				
# 1 355'	# 2 345'	# 3 335'	# 4 325'	# 5 265'
# 6 255'	# 7 245'	# 8 235'	# 9 225'	# 10 170'
Anode Output (Amps)				
# 1 4.3	# 2 4.5	# 3 4.8	# 4 5.4	# 5 5.4
# 6 6.3	# 7 6.1	# 8 6.2	# 9 5.7	# 10 6.3
Anode Depth				
# 11	# 12	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Anode Output (Amps)				
# 11	# 12	# 13	# 14	# 15
# 16	# 17	# 18	# 19	# 20
Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.98	Amps 26.7	Ohms .45		

Remarks: Driller said WATER AT 40', could NOT BLOW WATER out of Hole. More WATER From 100'-140'. (Took WATER sample. LOST CIRCULATION AT 220', GOT CIRCULATION BACK NEXT A.M. SET 20' of 8" P.V.C. SURFACE CASING. 1 Hr. SETTING TIME. INSTALLED 383' of 1" P.V.C. VENT pipe PERFORATED 340'.

G.B. \$4399.00

Rectifier Size: — V — A T.E.G.

Addn'l Depth: —

Depth Credit: — 117' ✓

Extra Cable: — 130' ✓

Ditch &amp; 1 Cable: — 250' ✓

Ditch &amp; 2 Cable: —

25' Meter Pole: —

20' Meter Pole: —

10' Stub Pole: —

Junction Box: — 1

20' of 8" P.V.C. CASING.

1 Hr. CASING TIME AT \$125.00/Hr.

All Construction Completed

(Signature)

— 468.00 ✓

26.00 ✓

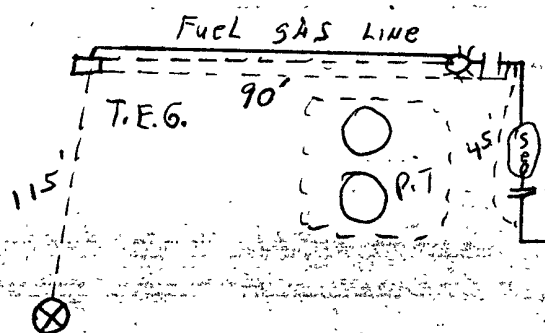
175.00 ✓

\$4626.90

269.90 ✓ TAX 231.35

8,000.40 TOTAL \$4858.25

125.00





## MERIDIAN OIL

P. O. BOX 4289-Phone 327-0251

FARMINGTON, NM

Date 11/6/87

## DEEP WELL GROUND BED LOG

EPS 1905W

Company Meridian Oil

Well No. HANCOCK 3A Location NW 22-28-9

Volts Applied 11.98

Amperes 26.7

Depth (ft)	Log Reading	Depth (ft)	Log Reading	Depth (ft)	Log Reading	Depth (ft)	Log Reading
5		230	2.6	455		680	
10		235	3.0 - (8)	460		685	
15		240	3.3	465		690	
20		245	3.2 - (7)	470		695	
25		250	3.1	475		700	
30		255	3.1 - (6)	480		705	1-345-3.7-4.5
35		260	3.0	485		710	2-345-3.6-4.5
40		265	2.7 - (5)	490		715	3-345-3.4-4.8
45		270	2.4	495		720	4-345-3.7-5.4
50		275	2.4	500		725	5-265-3.3-5.4
55		280	2.0	505		730	6-255-4.1-6.2
60		285	1.4	510		735	7-245-4.3-6.1
65		290	1.6	515		740	8-235-4.0-6.2
70		295	1.6	520		745	9-225-3.6-5.2
75		300	1.6	525		750	10-170-4.5-6.2
80		305	1.6	530		755	
85		310	1.6	535		760	
90		315	1.3	540		765	
95		320	1.3	545		770	
100	1.4	325	2.9 - (4)	550		775	
105	1.0	330	3.0	555		780	
110	1.1	335	2.7 - (3)	560		785	
115	1.3	340	2.7	565		790	
120	1.9	345	2.8 - (2)	570		795	
125	1.3	350	2.8	575		800	
130	.7	355	2.8 - (1)	580		805	
135	.6	360	2.7	585		810	
140	.6	365	2.2	590		815	
145	.6	370	1.6	595		820	
150	.8	375		600		825	
155	1.1	380	3.83	605		830	
160	2.2	385		610		835	
165	2.6	390	Drilled To	615		840	
170	3.3 - (9)	395		620		845	
175	3.1	400		625		850	
180	1.6	405		630		855	
185	1.6	410		635		860	
190	2.0	415		640		865	
195	2.2	420		645		870	
200	2.1	425		650		875	
205	2.1	430		655		880	
210	1.7	435		660		885	
215	2.4	440		665		890	
220	2.6	445		670		895	
225	2.9 - (9)	450		675		900	



## WELL TYPE GROUND BED DATA

DATA SHEET NO. 1012

COMPANY: MERIDIAN OIL CO. JOB NO: 13121 DATE: 11-6-87  
 WELL: HANCOCK #38 PIPELINE:  
 LOCATION: SEC 22 TWP. 28 RGE. 9 CO. SANDHILL STATE WY  
 ELEV. \_\_\_\_\_ FT: ROTARY 383' FT: CABLE TOOL -0- FT: CASING 20'-8" PK.  
 GROUND BED: DEPTH 383' FT. DIA. 6 3/4" IN. GAS \_\_\_\_\_ LBS. ANODES 10-21 HR. R.O. TIME

DEPTH, FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE			NO. COKE	WITH COKE	DEPTH TOP OF ANODES	
		E	I	R			NO.	FT.
5	FIRST WATER AT 100' - 140' SAND (5GPM)							
10								
15								
20								
25								
30								
35								
40								
45								
50								
55								
60								
65								
70								
75								
80								
85								
90								
95								
100	SANDY SHALE		1.4					
5			1.0					
10			1.1					
15			1.3					
20			1.9					
25			1.3					
30			0.7					
35			0.6					
40			0.6					
45			0.7					
50			0.8					
55			1.1					
60	SHALE		2.2					
65			2.3					
70			3.3		4.5	6.3	110	170
75			3.1					
80			1.6					
85			1.6					
90			2.0					
95			2.2					
100			2.1					
5	SANDY SHALE (LOST CIRCULATION)		2.1					
10			2.7					
15			2.4					

GROUND BED RESISTANCE: (1) VOLTS 11.98 - AMPS 26.7 - .45 OHMS

(2) VIBROGROUND \_\_\_\_\_ OHMS



## WELL TYPE GROUNDED DATA

DATA SHEET NO. 2062

COMPANY \_\_\_\_\_ JOB No. \_\_\_\_\_ DATE \_\_\_\_\_  
 WELL: HANCOCK #3A PIPELINE \_\_\_\_\_  
 LOCATION: SEC \_\_\_\_\_ TWP \_\_\_\_\_ RGE \_\_\_\_\_ CO. \_\_\_\_\_ STATE \_\_\_\_\_  
 ELEV. \_\_\_\_\_ FT: ROTARY \_\_\_\_\_ FT: CABLE TOOL \_\_\_\_\_ FT: CASING \_\_\_\_\_  
 GROUNDED: DEPTH \_\_\_\_\_ FT. DIA \_\_\_\_\_ IN. GAS \_\_\_\_\_ LBS. ANODES \_\_\_\_\_

DEPTH FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE			NO COKE	WITH COKE	DEPTH TOP OF ANODES	
		E	I	R			NO.	FT.
20	SHALE		2.6					
25			2.9		3.6	5.3	9	225
30			2.6					
35			3.0		4.0	6.2	8	235
40			3.3					
45			3.2		4.3	6.1	7	245
50			3.1					
55			3.1		4.1	6.3	6	255
60			3.0					
65			2.7		3.3	5.4	5	265
70			2.4					
75			2.4					
80			1.9					
85			1.4					
90			1.6					
95			1.6					
300	SAND		1.6					
5	SANDY SHALE		1.6					
10			1.6					
15			1.3					
20			1.3					
25			2.9		3.9	5.4	4	325
30			3.0					
35			2.7		3.2	4.8	3	335
40			2.7					
45			2.8		3.6	4.5	2	345
50			2.8					
55	T.D. 383		2.8		3.7	4.3	1	355
60			2.7					
65			2.2					
70			1.6					
75			1.3					
80								
85								
90								
95								
400								
5								
10								
15								
20								
25								
30								

GROUNDED RESISTANCE: (1) VOLTS \_\_\_\_\_ - AMPS \_\_\_\_\_ - OHMS

(2) VIBROGROUND \_\_\_\_\_ OHMS



## API WATER ANALYSIS REPORT FORM

Company MERIDIAN OIL COMPANY		Sample No. 1		Date Sampled 11-5-87	
Field BLANCO		Legal Description NW 22-28-9		County or Parish San Juan	
Lease or Unit		Well HANCOCK #3A		Depth 120'	
Type of Water (Produced, Supply, etc.)		Sampling Point 120' Ground level		Water, B/D	
				Sampled By JS	

## DISSOLVED SOLIDS

## CATIONS

	mg/l	me/l
Sodium, Na (calc.)	3054	133
Calcium, Ca	340	17
Magnesium, Mg	53	4.3
Barium, Ba		

## ANIONS

Chloride, Cl	64	1.8
Sulfate, SO <sub>4</sub>	7300	150
Carbonate, CO <sub>3</sub>	0	0
Bicarbonate, HCO <sub>3</sub>	142	2.3

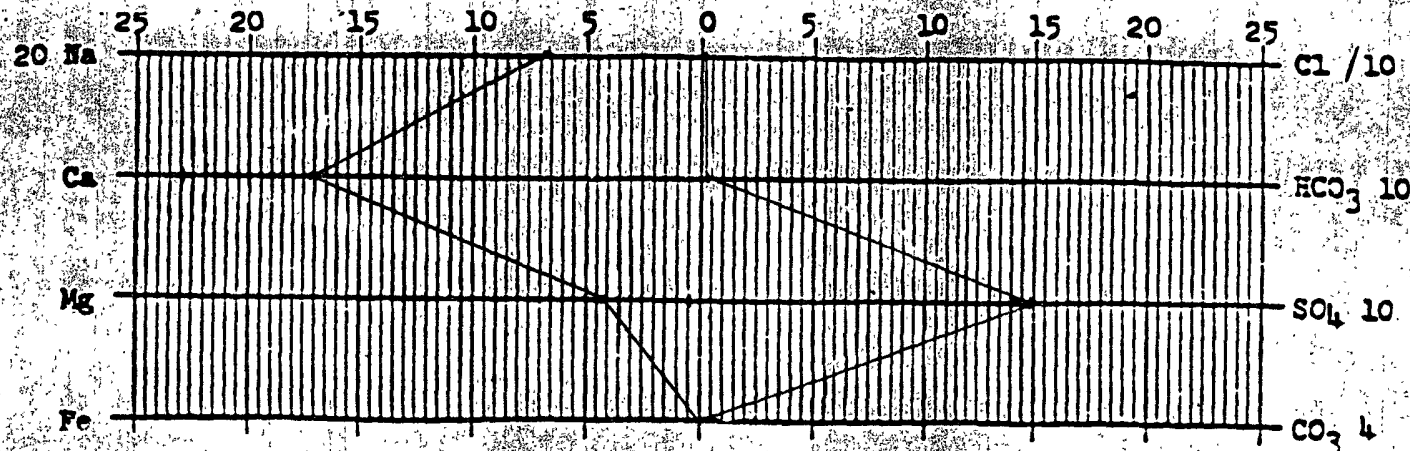
## OTHER PROPERTIES

pH	7.4
Specific Gravity, 60/60 F.	1.0089
Resistivity (ohm-meters) 72° F.	1.39

Total Dissolved Solids (calc.) 11,000

Iron, Fe (total) 0  
Sulfide, as H<sub>2</sub>S 0

## REMARKS &amp; RECOMMENDATIONS:



1298

30-045-26384

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICO  
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC. Location: Unit C Sec. 23 Twp 28 Rng 9

Name of Well/Wells or Pipeline Serviced MANCOCK #4A

cps 1906w

Elevation 6164' Completion Date 11/4/87 Total Depth 390' Land Type\* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used  
N/A

Depths & thickness of water zones with description of water when possible:  
Fresh, Clear, Salty, Sulphur, Etc. 40' SAMPLE TAKEN

Depths gas encountered: N/A

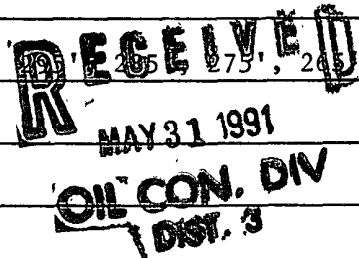
Type & amount of coke breeze used: N/A

Depths anodes placed: 345', 335', 325', 315', 305', 295', 285', 275', 265', 255'

Depths vent pipes placed: 390'

Vent pipe perforations: 340'

Remarks: gb #1



If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

\*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.  
If Federal or Indian, add Lease Number.

FM-07-0238 (Rev. 10-82)

WELL CASING

## CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Drilling Log (Attach Hereto) ☐

Completion Date: 11/4/87

CPS #	Well Name, Line or Plant:	Work Order #	Static:	Ins. Union Check
1906W	HAWCOCK #4A		.82	N
Location: NW 23-28-9	Anode Size: 2" X 60"	Anode Type: DURATION	Size Bit: 6 3/4"	<input checked="" type="checkbox"/> Good <input checked="" type="checkbox"/> Bad Repair 11/5
Depth Drilled: 390'	Depth Logged: 390'	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
Anode Depth				
#1 345'	#2 335'	#3 325'	#4 315'	#5 305'
#6 295'	#7 285'	#8 275'	#9 265'	#10 255'
Anode Output (Amps)				
#1 3.7	#2 5.3	#3 5.5	#4 5.7	#5 5.2
#6 4.7	#7 4.9	#8 3.8	#9 4.4	#10 3.8
Anode Depth				
#11	#12	#13	#14	#15
#16	#17	#18	#19	#20
Anode Output (Amps)				
#11	#12	#13	#14	#15
#16	#17	#18	#19	#20
Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.79	Amps 21.6	Ohms .54		

Remarks: Driller said WATER AT 40'. (Took WATER SAMPLE)  
 INSTALLED 390' of 1" P.V.C. VENT P.P.O. Perforated 340'.

G.B. = \$4399.00

Rectifier Size: \_\_\_\_\_ V \_\_\_\_\_ A  
 Addn'l Depth \_\_\_\_\_  
 Depth Credit: -110'  
 Extra Cable: 165'  
 Ditch & 1 Cable: 130'  
 Ditch & 2 Cable: \_\_\_\_\_  
 25' Meter Pole: \_\_\_\_\_  
 20' Meter Pole: \_\_\_\_\_  
 10' Stub Pole: \_\_\_\_\_  
 Junction Box: 1

T.E.G. no rectifier 799.98-Subline  
 -440.00  
 3959.00  
 91.00

All Construction Completed

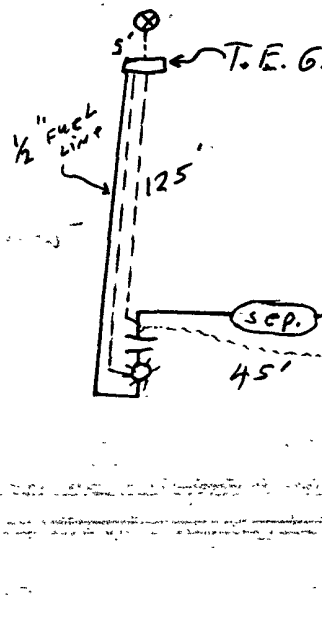
(Signature)

TOTAL

4352.90

TAX @ 5%

\$ 4570.58





Date 11/4/87

CPS 1906 W

54

5				230	1.9			455				680				
10				235	1.0			460				685				
15				240	1.1			465				690				
20				245	1.3			470				695				
25				250	1.5			475				700				
30				255	2.1	-	⑩	480				705				
35				260	2.0			485				710				
40	1.7	WATER		265	2.5	-	⑨	490				715	1-345	2.5	-	3.7
45	1.6			270	2.3			495				720	2-335	3.6	-	5.3
50	1.0			275	2.1	-	⑧	500				725	3-325	3.8	-	5.5
55	.6			280	2.2			505				730	4-315	3.8	-	5.7
60	.5			285	2.5	-	⑦	510				735	5-305	3.9	-	5.9
65	.6			290	2.5			515				740	6-295	2.9	-	4.7
70	.7			295	2.2	-	⑥	520				745	7-285	3.4	-	4.9
75	.7			300	2.6			525				750	8-275	2.8	-	3.8
80	.7			305	2.7	-	⑤	530				755	9-265	3.3	-	4.4
85	.7			310	2.7			535				760	10-255	2.8	-	3.8
90	.5			315	2.7	-	④	540				765				
95	.6			320	2.6			545				770				
100	.7			325	2.6	-	③	550				775				
105	.7			330	2.6			555				780				
110	.8			335	2.6	-	②	560				785				
115	.7			340	2.4			565				790				
120	.6			345	1.7	-	①	570				795				
125	.7			350	1.3			575				800				
130	.8			355	1.5	-	①	580				805				
135	1.0			360	1.4			585				810				
140	1.2			365	1.4			590				815				
145	1.2			370	1.6			595				820				
150	1.1			375	1.7			600				825				
155	1.1			380	1.5			605				830				
160	1.0			385	1.4			610				835				
165	1.3			390	T.D. DIALIZED To			615				840				
170	1.8			395				620				845				
175	1.1			400				625				850				
180	1.0			405				630				855				
185	.8			410				635				860				
190	.7			415				640				865				
195	.7			420				645				870				
200	.7			425				650				875				
205	.6			430				655				880				
210	.6			435												



## WELL TYPE GROUNDBED DATA

DATA SHEET NO. 1052COMPANY: MERIDIAN OIL CO.

JOB No. \_\_\_\_\_ DATE: \_\_\_\_\_

WELL: HANCOCK #4A

PIPELINE: \_\_\_\_\_

LOCATION: SEC. 23 TWP. 28N RGE. R9W CO. SAN JUAN STATE NMELEV. \_\_\_\_\_ FT. ROTARY 390 FT. CABLE TOOL 0 FT. CASING 0GROUNDBED: DEPTH 390 FT. DIA. 6 3/4 IN. GAS \_\_\_\_\_ LBS. ANODES 10-2" x 60" TYPE 1

DEPTH FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE			NO COKE	WITH COKE	DEPTH TOP OF ANODES	
		E	I	R			NO	FT.
40	FIRST WATER AT 40' (50 PSI)		1.7					
45	0-40 SAND		1.6					
50	SAND		1.0					
55			0.6					
60			0.5					
65			0.6					
70			0.7					
75			0.7					
80			0.7					
85			0.6					
90			0.5					
95			0.6					
100			0.7					
5			0.7					
10			0.8					
15			0.7					
20			0.6					
25			0.7					
30			0.8					
35			1.0					
40			1.2					
45	SANDY SHALE		1.2					
50			1.1					
55			1.1					
60			1.0					
65			1.3					
70			1.8					
75			1.1					
80			1.0					
85			0.8					
90			0.7					
95			0.7					
100	SAND		0.7					
5			0.6					
10			0.6					
15			0.6					
20			0.6					
25			0.6					
30			0.9					
35			1.0					
40			1.1					
45			1.3					
50			1.5					

GROUNDBED RESISTANCE: (1) VOLTS 11.22 - AMPS 21.6 - 0.54 OHMS

(2) VIBROGROUND \_\_\_\_\_ OHMS



DATA SHEET NO. 2 of 2

COMPANY: MERIDIAN OIL CO.

JOB NO. \_\_\_\_\_ DATE: \_\_\_\_\_

WELL: HANCOCK #4A

PIPELINE: \_\_\_\_\_

LOCATION: SEC. \_\_\_\_\_

TWP. \_\_\_\_\_

RGE. \_\_\_\_\_

CO. \_\_\_\_\_

STATE: \_\_\_\_\_

ELEV. \_\_\_\_\_

FT. \_\_\_\_\_

ROTARY \_\_\_\_\_

FT. \_\_\_\_\_

CABLE TOOL \_\_\_\_\_

FT. \_\_\_\_\_

CASING \_\_\_\_\_

GROUNDED DEPTH \_\_\_\_\_

FT. \_\_\_\_\_

DIA. \_\_\_\_\_

IN. \_\_\_\_\_

GAS \_\_\_\_\_

LBS. \_\_\_\_\_

ANODES \_\_\_\_\_

DEPTH FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE			NO. COKE	WITH COKE	ANODE NO.	DEPTH TOP OF ANODES
		E	I	R				
55	SAND & SHALE		2.1		2.8	3.8	10	255
60			2.0					
65			2.5		3.3	4.4	9	265
70			2.3					
75			2.1		2.8	3.8	8	275
80			2.2					
85			2.5		3.4	4.9	7	285
90			2.5					
95			2.2		2.9	4.7	6	295
300			2.6					
5			2.7		3.8	5.2	5	305
10			2.7					
15			2.7		3.8	5.7	4	315
20			2.6					
25			2.6		3.8	5.5	3	325
30			2.6					
35			2.6		3.6	5.3	2	335
40			2.4					
45			1.7		2.5	3.7	1	345
50	SAND		1.3					
55			1.5					
60			1.4					
65			1.4					
70			1.6					
75			1.7					
80			1.5					
85			1.4					
90								
95								
400								
5								
10								
15								
20								
25								
30								
35								
40								
45								
50								
55								
60								
65								

GROUNDED RESISTANCE: (1) VOLTS 11.79 - AMPS 21.6 - .54 OHMS

(2) VIBROGROUND \_\_\_\_\_ OHMS

GENERAL CATHODIC PROTECTION SERVICES CO.

A. LUKENS COMPANY





CPS. 1906 CD

API WATER ANALYSIS REPORT FORM			
Company	MERIDIAN OIL COMPANY	Sample No.	2
Field	Blanco	County or Parish	San Juan
Lease or Unit	Well Hancock #4A	State	N.M.
Type of Water (Produced, Supply, etc.)	Depth	Formation	Water, B/D
	60'		
	Sampling Point	Sampled By	
	60'		

## DISSOLVED SOLIDS

## CATIONS

Sodium, Na (calc.)  
Calcium, Ca  
Magnesium, Mg  
Barium, Ba

mg/l

2370

202

35

me/l

103

10.1

2.8

## OTHER PROPERTIES

pH  
Specific Gravity, 60/60 F.  
Resistivity (ohm-meters) 12° F.

6.74

1.0085

1.52

Total Dissolved Solids (calc.) 8000

Iron, Fe (total)  
Sulfide, as H<sub>2</sub>S

0

## ANIONS

Chloride, Cl  
Sulfate, SO<sub>4</sub>  
Carbonate, CO<sub>3</sub>  
Bicarbonate, HCO<sub>3</sub>

46

5270

0

116

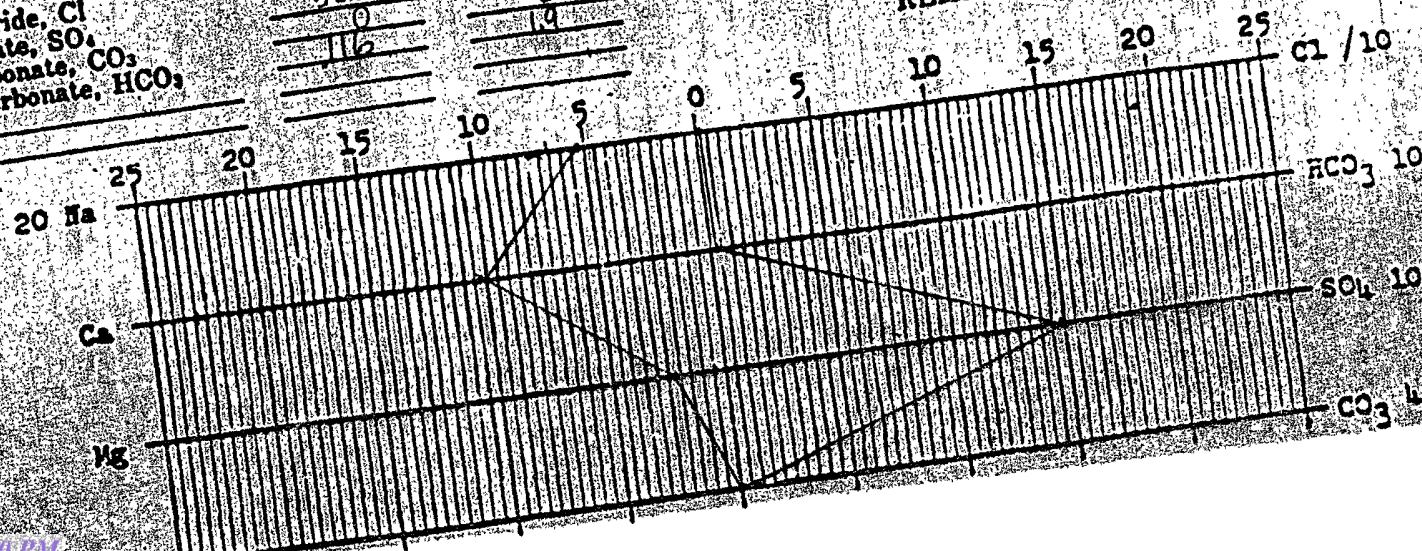
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173

0

19

## REMARKS &amp; RECOMMENDATIONS:



#1A 30-045-26506

#2 30-045-20625

#7 30-045-21575

#9 30-045-21556

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICO  
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC. Location: Unit E Sec. 26 Twp 28 Rng 9Name of Well/Wells or Pipeline Serviced HANCOCK #9, LACKEY #1A, #2, #7

cps 1909w

Elevation 6160' Completion Date 11/10/87 Total Depth 420' Land Type\* N/ACasing, Sizes, Types & Depths N/AIf Casing is cemented, show amounts & types used N/AIf Cement or Bentonite Plugs have been placed, show depths & amounts used  
N/ADepths & thickness of water zones with description of water when possible:  
Fresh, Clear, Salty, Sulphur, Etc. 160'Depths gas encountered: N/AType & amount of coke breeze used: N/ADepths anodes placed: 375', 365', 340', 330', 320', 285', 260', 250', 240', 220'Depths vent pipes placed: 424'Vent pipe perforations: 380'Remarks: gb #1

**RECEIVED**  
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OIL CON. DIV.  
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

\*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.  
If Federal or Indian, add Lease Number.



MERIDIAN OIL, INC.  
Farmington Region  
Post Office Box 4289  
Farmington, New Mexico 87499  
(505) 327-0251

## WELL CASING

Drilling Log (Attach Here to)



## CATHODIC PROTECTION CONSTRUCTION REPORT

Completion Date 11-10-87

## DAILY LOG

CPS #	Well Name, Line or Plant	Work Order #	Static	Ins. Union Check
1909-W	LACKEY #1-A HANCOCK #9 LACKEY #7	#2	600' E .82 600' E .79 600' E .79	<input checked="" type="checkbox"/> Good <input type="checkbox"/> Bad
Location	Anode Size	Anode Type	Size Bit	
E26-28-9	2" x 60"	Duriron	6 3/4"	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used
420'	419'			
Anode Depth				
#1 375'	#2 365'	#3 340'	#4 330'	#5 320'
#6 285'	#7 260'	#8 250'	#9 240'	#10 220'
Anode Output (Amps)				
#1 5.8	#2 5.9	#3 5.8	#4 6.2	#5 6.3
#6 4.9	#7 4.6	#8 5.2	#9 4.9	#10 5.6
Anode Depth				
#11	#12	#13	#14	#15
#16	#17	#18	#19	#20
Anode Output (Amps)				
#11	#12	#13	#14	#15
#16	#17	#18	#19	#20
Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 12.2	Amps 26.7	Ohms .46		

Remarks: DRILLED 420' ; LOGGED 419'. DRILLER SAID WATER AT 160' CAUGHT SAMPLE. INSTALLED 424' OF 1" PVC VENT PIPE ; PERFORATED BOTTOM 380'

Rectifier Size: 40 v 16 A

Add'l Depth

Depth Credit: 81' ✓

Extra Cable: 875' ✓

Ditch &amp; 1 Cable: 670' ✓

Ditch &amp; 2 Cable:

25' Meter Pole:

20' Meter Pole: 1 ✓

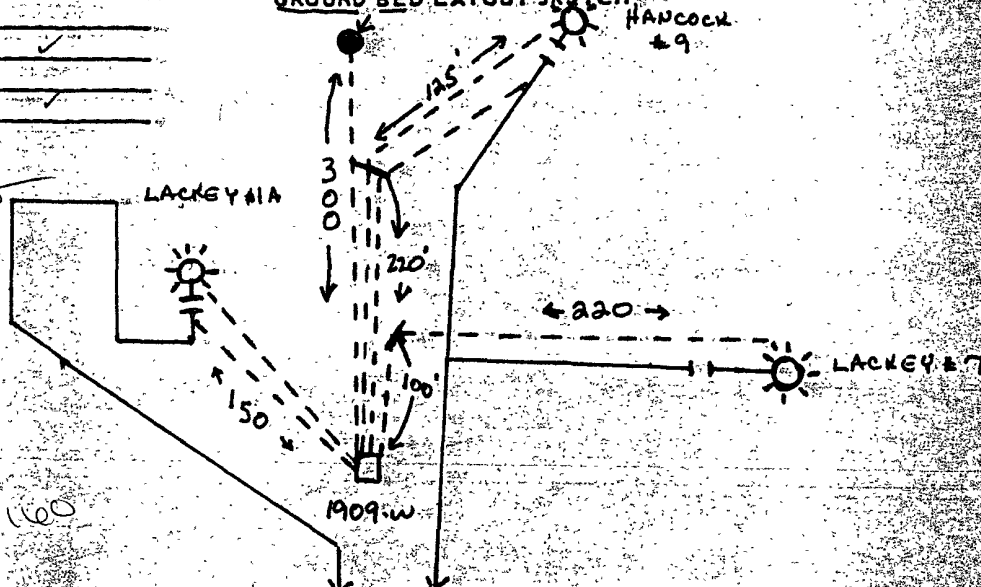
10' Stub Pole:

Junction Box: 1 ✓

All Construction Completed

*M. Williams*  
(Signature)

## GROUND BED LAYOUT SKETCH



4399.00 ✓

-324.00 ✓

175.00 ✓

469.00 ✓

365.00 ✓

269.90

799.98

6153.88

307.69

6461.57

6160

## MERIDIAN OIL

P. O. BOX 4289 Phone 327-0251

FARMINGTON, NM

Date 11-10-87

## DEEP WELL GROUND BED LOG

Company Meridian

Well No. Lacker #1-A

Location E 26-28-9

Volts Applied 12.2

Amperes 26.7

5		230	2.5	455		680	6.375-3.8-5.8
10		235	2.7	460		685	6.345-3.8-5.9
15		240	2.8	465		690	6.340-3.2-5.8
20		245	2.6	470		695	6.330-3.6-6.2
25		250	2.7	475		700	6.320-4.2-6.3
30		255	2.8	480		705	6.285-3.2-4.9
35		260	2.7	485		710	6.260-3.2-4.6
40		265	2.4	490		715	6.250-3.2-5.2
45		270	2.1	495		720	6.240-3.2-4.9
50		275	2.1	500		725	6.220-3.2-5.0
55		280	2.2	505		730	
60		285	2.7	510		735	
65		290	2.4	515		740	
70		295	1.9	520		745	
75		300	1.3	525		750	
80		305	.8	530		755	
85		310	2.4	535		760	
90		315	3.3	540		765	
95		320	3.4	545		770	
100		325	3.4	550		775	
105		330	3.3	555		780	
110		335	3.0	560		785	
115		340	2.8	565		790	
120		345	2.9	570		795	
125		350	1.6	575		800	
130		355	2.0	580		805	
135		360	2.4	585		810	
140		365	3.2	590		815	
145		370	3.4	595		820	
150		375	3.3	600		825	
155		380	2.4	605		830	
160		385	2.1	610		835	
165		390	2.2	615		840	
170	1.5	395	2.2	620		845	
175	1.5	400	1.9	625		850	
180	1.3	405	2.0	630		855	
185	1.7	410	1.8	635		860	
190	2.5	415	1.7	640		865	
195	2.0	420		645		870	
200	1.4	425		650		875	
205	1.4	430		655		880	
210	2.0	435		660		885	
215	2.3	440		665		890	
220	2.2	445		670		895	
225	2.5	450		675		900	



# GENERAL

WELL TYPE GROUNDED DATA

DATA SHEET NO. 1018COMPANY MERIDIAN OIL CO. JOB NO. 13122 DATE: 10-10-87WELL: Hecker #1A PIPELINE: \_\_\_\_\_LOCATION: SEC 26 TWP. 28N RGE. 9W CO. STAN SHUN STATE NMELEV. \_\_\_\_\_ FT: ROTARY 419' FT: CABLE TOOL \_\_\_\_\_ FT: CASING \_\_\_\_\_ FTGROUNDED: DEPTH 419' FT. DIA. 6 3/4" N. OAB \_\_\_\_\_ LBS. ANODES 10 2 1/2" X 60" TRAIL

DEPTH, FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE			NO COKE	WITH COKE	DEPTH TOP OF ANODES	
		E	I	R			NO.	FT.
5	FIRST CONTACT AT 60' GOOD WIRE							
10	AT 125' (5 ANODE)							
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985								
990								
995								
1000								

GROUNDED RESISTANCE (1) VOLTS 12.21 - AMPS 26.7 - 246 OHMS

(2) VARIOUS \_\_\_\_\_ OHMS



CITY OF CINCINNATI  
TYPE GROUNDBED D.

DATA SHEET NO. \_\_\_\_\_

COMPANY \_\_\_\_\_ JOB No. \_\_\_\_\_ DATE \_\_\_\_\_

WELL: \_\_\_\_\_ PIPELINE: \_\_\_\_\_

LOCATION: SEC. \_\_\_\_\_ TWP. \_\_\_\_\_ RGE. \_\_\_\_\_ CO. \_\_\_\_\_ STATE \_\_\_\_\_

ELEV. \_\_\_\_\_ FT.: ROTARY \_\_\_\_\_ FT.: CABLE TOOL \_\_\_\_\_ FT.: CASING \_\_\_\_\_

GROUNDBED: DEPTH \_\_\_\_\_ FT. DIA. \_\_\_\_\_ IN. GAS \_\_\_\_\_ LBS. ANODES \_\_\_\_\_

DEPTH FT.	DRILLER'S LOG	EXPLORING ANODE TO STRUCTURE			NO COKE	WITH COKE	DEPTH TOP OF ANODES	
		E	I	R			NO.	FT.
20	SHALE		2.7					
25			2.5					
30			2.5					
35			2.7					
40			2.8					
45			2.6					
50	SANDY SHALE		2.7					
55			2.8					
60			2.7					
65			2.4					
70								
75								
80								
85								
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95	SAND							
400								
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20								
25								
30								

GROUNDBED RESISTANCE: (1) VOLTS \_\_\_\_\_ AMPS \_\_\_\_\_ OHMS

(2) VIBROGROUND \_\_\_\_\_ OHMS



7/2/21 30-045-20710  
A#4 30-045-07106  
A#8 30-045-21557

3894

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICO

(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC. Location: Unit 0 Sec. 26 Twp 28 Rng 9

Name of Well/Wells or Pipeline Serviced HANCOCK A #2A, #4, #8  
cps 195lw

Elevation 5955' Completion Date 5/20/88 Total Depth 400' Land Type\* N/A

Casing, Sizes, Types & Depths 40' OF 8" PVC SURFACE CASING

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used  
N/A

Depths & thickness of water zones with description of water when possible:  
Fresh, Clear, Salty, Sulphur, Etc. 40' NO SAMPLE

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 325', 315', 305', 295', 260', 250', 240', 205', 190', 150'

Depths vent pipes placed: 385'

Vent pipe perforations: 360'

Remarks: gb #1

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OIL CON. DIV

DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

\*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.  
If Federal or Indian, add Lease Number.



FM 07-0238 (Rev. 10-07)

WELL CASING

## CATHODIC PROTECTION CONSTRUCTION REPORT

DAILY LOG

Drilling Log (Attach Here)

Completion Date 5/29/88

CPS #	Well Name, Line or Plant	Work Order #	Size	Ins. Union Check
1951W	HANCOCK - A-2A	54041A		<input type="checkbox"/> Good <input checked="" type="checkbox"/> Bad
		2054041A		
Location	Anode Size	Anode Type	Size Bit	
O-26-26-9	2" X 60"	DURION	6 3/4"	
Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Low Circulation Mts. Used
400	385			
Anode Depth				
#1 325	#2 315	#3 305	#4 295	#5 260
#6 250	#7 240	#8 205	#9 190	#10 15
Anode Output (Amps)				
#1 6.6	#2 6.7	#3 6.9	#4 6.6	#5 6.0
#6 6.6	#7 6.4	#8 6.1	#9 5.8	#10 5.8
Anode Depth				
#11	#12	#13	#14	#15
#16	#17	#18	#19	#20
Anode Output (Amps)				
#11	#12	#13	#14	#15
#16	#17	#18	#19	#20
Total Circuit Resistance			No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 11.8	Amps 33.3	Ohms 35		

Remarks: WATER AT 40'. WOULD NOT SETTLE OUT FOR WATER SAMPLE  
 INSTALLED 40' OF 8" P.V.C. CASING, 2 HR. SETTING TIME. INSTALLED 385'  
 OF 1" P.V.C. VENT PIPE, PERFORATED 360'.

We need TO INSTALL 2 INS. UNIONS AT WELL HEAD

G.B. #4074.00 ✓

Rectifier Size: 90V 16A 669.00 ✓

Add'l Depth: -

Depth Credit: -115 -402.50 ✓

Extra Cable: 190' 45.60 ✓

Ditch & H Cable: 410' 287.00 ✓

25' Meter Pole: -

20' Meter Pole: 1 297.00 ✓

10' Stub Pole: -

Junction Box: 1 225.00 ✓

2 Joints of 8" P.V.C. casing 200.00 ✓

2 Hr. setting time 276.00 ✓

5671.10 ✓

TAX 283.56 ✓

\$5954.66 ✓

250

160

160

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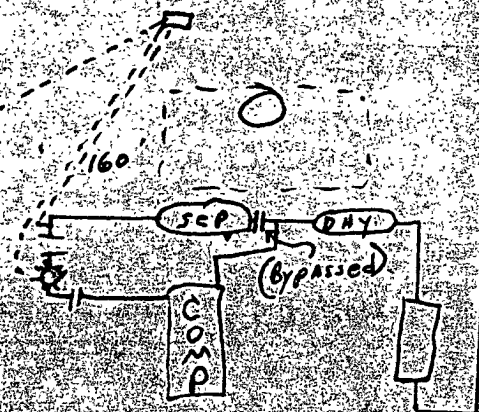
160

160

160

All Construction Completed

(Signature)

HANCOCK  
A-8HANCOCK  
A-4



1608 Sch. field Ln.

P.O. Box

Farmington, NM 87499

(505) 327-9215

(505) 325-1946

Date 5/20/88

Company NICK DIAP oil

Well No. HAWCOCK A-2A Location 0-26-28-9 Volts Applied 11.8 Amperes 31.3

5						230	1.8					455					680						
10						235	2.7					460					685						
15						240	3.0			(7)		465					690	1-325	4.7				6.6
20						245	3.1					470					695	2-315	4.4				6.7
25						250	3.1			(6)		475					700	3-305	4.5				6.9
30						255	3.2					480					705	4-295	4.4				6.6
35						260	2.9			(5)		485					710	5-280	4.1				6.0
40	2.5					265	2.7					490					715	6-250	4.4				6.6
45	2.7					270	2.6					495					720	7-240	4.3				6.4
50	2.6					275	2.3					500					725	8-205	4.4				
55	2.5					280	2.3					505					730	9-190	4.3				
60	2.9					285	2.5					510					735	10-150	4.4				
65	2.7					290	3.0					515					740						
70	2.8					295	3.1			(4)		520					745						
75	2.7					300	3.1					525					750						
80	2.8					305	3.1			(3)		530					755						
85	2.4					310	3.2					535					760						
90	2.0					315	3.0			(2)		540					765						
95	1.6					320	3.1					545					770						
100	2.2					325	3.1			(1)		550					775						
105	2.6					330	2.9					555					780						
110	2.4					335	2.9					560					785						
115	2.4					340	2.8					565					790						
120	1.9					345	2.7					570					795						
125	1.6					350	2.9					575					800						
130	1.2					355	1.5					580					805						
135	1.3					360	1.4					585					810						
140	1.4					365	1.4					590					815						
145	2.9					370	1.2					595					820						
150	3.2				(10)	375	1.4					600					825						
155	2.9					380	1.2					605					830						
160	2.8					385				T.D.		610					835						
165	2.3					390						615					840						
170	2.0					395						620					845						
175	2.1					400				Dilled to		625					850						
180	2.6					405						630					855						
185	3.0					410						635					860						
190	3.0				(9)	415						640					865						
195	2.8					420						645					870						
200	2.5					425						650					875						
205	3.0				(8)	430						655					880						
210	2.9					435						660					885						
215	2.6					440						665					890						
220	2.3					445						670					895						
225	1.9					450						675					900						



D. CRASS DRILLING CO.Drill No. 3

1951

## DRILLER'S WELL LOG

S. P. No. HANCOCK A-2A Date 5-19-88  
Client Meridian Oil Co. Prospect \_\_\_\_\_  
County SAN JUAN State New Mex.

If hole is a redrill or if moved from original staked position show distance  
and direction moved: \_\_\_\_\_

FROM	TO	FORMATION — COLOR — HARDNESS
0	35	SAND
35	70	SANDY shale
70	125	Shale
125	140	SAND
140	210	Shale
210	230	SANDSTONE
230	390	Shale
390	400	SANDSTONE

Mud \_\_\_\_\_ Bran \_\_\_\_\_ Lime \_\_\_\_\_

Rock Bit Number \_\_\_\_\_ Make \_\_\_\_\_

Remarks: Water @ 40'  
Set 40' CASING. 2 Hrs.

Driller RONNIE BROWN



1664 #2 30-045-07778  
 #6 30-045-20917  
 #9 30-045-07166

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
 NORTHWESTERN NEW MEXICO  
 (Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC. Location: Unit G Sec. 26 Twp 28 Rng 9

Name of Well/Wells or Pipeline Serviced HANCOCK A #2, #6, #9

cps 1985w

Elevation 6011' Completion Date 8/22/88 Total Depth 340' Land Type\* N/A

Casing, Sizes, Types & Depths 20' OF 8" PVC CASING

If Casing is cemented, show amounts & types used 25'

If Cement or Bentonite Plugs have been placed, show depths & amounts used  
N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. 90'

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Depths gas encountered: 200'

**OIL CON. DIV**  
**DIST. 3**

Type & amount of coke breeze used: N/A

Depths anodes placed: 300', 270', 260', 250', 225', 215', 155', 145', 130', 120'

Depths vent pipes placed: 335'

Vent pipe perforations: 260'

Remarks: gb #1

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

\*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.  
 If Federal or Indian, add Lease Number.



1 - 30-045-07152  
12 - 30-045-21561  
10 - 30-045-20821

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICO

Operator MERIDIAN Oil Location: Unit L Sec. 28 Twp 28 Rng 9

Name of Well/Wells. or Pipeline Serviced HANCOCK B #1 B #12  
B #10

Elevation \_\_\_\_\_ Completion Date \_\_\_\_\_ Total Depth \_\_\_\_\_ Land Type \_\_\_\_\_

Casing Strings, Sizes, Types & Depths 100' of 8" PVC surface  
CASING

If Casing Strings are cemented, show amounts & types used Yes with  
25 bags cement

If Cement or Bentonite Plugs have been placed, show depths & amounts used  
No

Depths & thickness of water zones with description of water: Fresh, Clear,  
Salty, Sulphur, Etc. FRESH WATER 140'

Depths gas encountered: No

Ground bed depth with type & amount of coke breeze used: 430' deep  
with 5750 lbs of Asbury 218 R COKE breeze

Depths anodes placed: 410, 400, 390, 380, 370, 310, 300, 290, 280, 250, 240, 230, 220, 210, 200

Depths vent pipes placed: 430'

Vent pipe perforations: bottom 300'

Remarks: \_\_\_\_\_

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JAN 20 1995

OIL CON. DIV.  
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.  
If Federal or Indian, add Lease Number.



DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICOOperator Meridian Oil Location: Unit N Sec. 26 Twp 28 Rng 9Name of Well/Wells or Pipeline Serviced LACKEY # 709 # 14 # 5Elevation \_\_\_\_\_ Completion Date 12-3-91 Total Depth 382' Land Type FCasing Strings, Sizes, Types & Depths 8" PVC surfaceCASING - 95' DEEPIf Casing Strings are cemented, show amounts & types used YES; with23 SACKS NEAT CEMENT

If Cement or Bentonite Plugs have been placed, show depths &amp; amounts used

YES - 105' TO 90'

Depths &amp; thickness of water zones with description of water: Fresh, Clear,

Salty, Sulphur, Etc. 110'Depths gas encountered: 380'Ground bed depth with type & amount of coke breeze used: 382' DEEPwith 5,250 lbs Asbury 4518 Flo COKE & LORESCO Type S LDepths anodes placed: 354, 345, 335, 325, 300, 290, 280, 270, 205, 195, 185160Depths vent pipes placed: 382'Vent pipe perforations: bottom 250'

Remarks: \_\_\_\_\_

**RECEIVED**

FEB 24 1992

OIL CON. DIV.  
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.

If Federal or Indian, add Lease Number.



## CPS GROUND BED CONSTRUCTION WORKSHEET

CPS# 2225-W		P/L NAME(S), NUMBER(S) LACKEY H#709 #1 #5									
WO # 1013	TOTAL	VOLTS 11.56	AMPS 31.4	- OHMS .368	DATE 12-3-91	NAME MRW					
REMARKS (notes for construction log) 95' CASING 23 SACKS CEMENT											
N 26-28-9 Drilled 400' LOGGED 382 H <sub>2</sub> O AT 100'											
Perforated bottom 250' MAKING SMALL AMOUNT OF GAS; Installed											
5 BAGS LORESCO 100 Ashury 4518 FLO CURE Plug											

DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	
	ANODE	*		ANODE	*		ANODE	*		ANODE	*	
100	1.9		295	3.5		490			685			
105	1.9		300	3.4		495			690			
110	2.8		305	2.3		500			695			
115	3.8		310	1.9		505			700			
120	4.0		315	2.4		510			ANODE	DEPTH	NO	FULLY
125	4.2		320	2.8		515			*		COKE	COKE D
130	3.7		325	3.2		520			1	354	2.8	6.7
135	3.5		330	3.5		525			2	345	3.5	7.4
140	3.3		335	3.6		530			3	335	3.6	7.3
145	3.2		340	3.5		535			4	325	3.2	6.6
150	2.9		345	3.5		540			5	300	3.6	6.8
155	3.1		350	3.3		545			6	290	4.1	7.5
160	3.1		355	2.8		550			7	280	4.1	7.6
165	2.8		360	2.6		555			8	270	4.1	7.7
170	2.6		365	2.6		560			9	205	3.1	6.9
175	2.6		370	2.3		565			10	195	3.3	7.4
180	3.0		375	2.0		570			11	185	3.7	7.9
185	3.6		380	TD	382	575			12	160	3.1	6.9
190	3.3		385			580			13			
195	3.3		390			585			14			
200	3.1		395			590			15			
205	3.1		400			595			16			
210	2.7		405			600			17			
215	2.5		410			605			18			
220	2.7		415			610			19			
225	2.7		420			615			20			
230	2.8		425			620			21			
235	2.6		430			625			22			
240	2.5		435			630			23			
245	2.9		440			635			24			
250	2.9		445			640			25			
255	2.8		450			645			26			
260	2.3		455			650			27			
265	3.4		460			655			28			
270	3.9		465			660			29			
275	4.2		470			665			30			
280	4.0		475			670						
285	4.3		480			675						
290	3.6		485			680						

DISTRIBUTION - original - permanent CPS FILE

copy - Division Corrosion Supervisor

copy - Region Corrosion Specialist



DATE: 5/8/96DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS  
NORTHWESTERN NEW MEXICOOperator Meridian Oil Inc. Location: Unit G Sec. 34 Twp 28 Rng 09

Name of Well/Wells or Pipeline Serviced \_\_\_\_\_

Storey C #11Elevation 6824 Completion Date 5/8/96 Total Depth 491 Land Type FCasing Strings, Sizes, Types & Depths 5/7 Set 59' of 8" PVC Casing.No Gas, Water, or Boulders were Encountered During Casing.If Casing Strings are cemented, show amounts & types used CementedWITH 15 SACKS

If Cement or Bentonite Plugs have been placed, show depths &amp; amounts used

NONEDepths & thickness of water zones with description of water: Fresh, Clear,  
Salty, Sulphur, Etc. HIT FRESH WATER AT 360'Depths gas encountered: NONEGround bed depth with type & amount of coke breeze used: 491' Depth.Used 130 SACKS OF Asbury 218R (6500#)Depths anodes placed: 475, 465, 455, 445, 435, 425, 415, 405, 395, 385, 375, 365, 355, 345, 335, 325, 315, 305, 295, 285, 275, 265, 255, 245, 235, 225, 215, 205, 195, 185, 175, 165Depths vent pipes placed: SURFACE TO 491'Vent pipe perforations: BOTTOM 360'

Remarks: \_\_\_\_\_

RECEIVED  
FEB 19 1997OIL CON. DIV.  
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.  
If Federal or Indian, add Lease Number.

## CPS GROUND BED CONSTRUCTION WORKSHEET

2915-W D/L NAME (S), NUMBER (S) Storey C #11  
 2I15 TOTAL VOLTS 11.77 AMPS 19.3 OHMS .610 DATE 5/8/96 NAME JOHN L. MOSS

REMARKS (NOTES FOR CONSTRUCTION LOG) Driller Reported DAMP AREAS AT 70, 200, 260, AND WATER AT 360. INSTALLED 491' OF 1" PE VENT PIPE, WITH THE BOTTOM 360' PERFORATED. CORE Breeze To 115'.

DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	DEPTH	LOG	ANODE	DEPTH	LOG	ANODE
	ANODE	"		ANODE	"		ANODE	"		ANODE	"
100			295			490	T.D. 491'		685		
105			300			495			690		
110			305			500			695		
115			310			505			700		
120			315		-13	510					
125			320			515					
130	3		325		-12	520					
135	3		330			525			1	475'	1.8
140	.4		335			530			2	465'	1.7
145	.4		340			535			3	455'	1.7
150	.4		345		-11	540			4	445'	3.0
155	1.0		350			545			5	435'	1.4
160	1.3		355		-10	550			6	425'	1.3
165	1.3	-15	360			555			7	415'	1.2
170	.9		365			560			8	405'	1.6
175	.4		370			565			9	395'	1.4
180	.3		375			570			10	385'	1.3
185	.3		380			575			11	375'	1.2
190	.2		385			580			12	365'	1.3
195	.1		390			585			13	355'	1.5
200	.3		395		-9	590			14	345'	3.0
205	.3		400			595			15	335'	1.7
210	.4		405		-8	600			16		
215	.2		410			605			17		
220	1.0		415		-7	610			18		
225	.9		420			615			19		
230	2.8	-14	425		-6	620			20		
235	2.8		430			625			21		
240	1.2		435		-5	630			22		
245	1.2		440			635			23		
250	1.0		445		4	640			24		
255	1.0		450			645			25		
260	1.1		455		3	650			26		
265	1.1		460			655			27		
270	1.1		465		2	660			28		
275	.9		470			665			29		
280	.9		475		1	670			30		
285	.9		480			675					
290	1.0		485			680					

DISTRIBUTION - ORIGINAL - SEPARATE CPS FILE





## APPENDIX C

### Executed C-138 Solid Waste Acceptance Form

---

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-138  
Revised 08/01/11

\*Surface Waste Management Facility Operator  
and Generator shall maintain and make this  
documentation available for Division inspection.

9705-1-425

## REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

1. Generator Name and Address: Enterprise Field Services, LLC, 614 Reilly Ave, Farmington NM 87401		AFE: N49886 PayKey: RB21200 PM: Maron O'Brien
2. Originating Site: Lateral C-6 Loop		
3. Location of Material (Street Address, City, State or ULSTR): UL D Section 27 T28N R9W; 36.639644 -107.784244		
4. Source and Description of Waste: Source: Remediation activities associated with a natural gas pipeline leak. Description: Hydrocarbon/Condensate impacted soil associated natural gas pipeline release. Estimated Volume <u>50</u> yd <sup>3</sup> / bbls Known Volume (to be entered by the operator at the end of the haul) <u>12/6</u> yd <sup>3</sup> / bbls		
5. GENERATOR CERTIFICATION STATEMENT OF WASTE STATUS		
<p>I, Thomas Long <i>Thomas Long</i>, representative or authorized agent for Enterprise Products Operating do hereby  <b>Generator Signature</b>          certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988          regulatory determination, the above described waste is: (Check the appropriate classification)</p> <p><input checked="" type="checkbox"/> RCRA Exempt: Oil field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste. <u>Operator Use Only: Waste Acceptance Frequency</u> <input type="checkbox"/> Monthly <input type="checkbox"/> Weekly <input type="checkbox"/> Per Load</p> <p><input type="checkbox"/> RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24, or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)</p> <p><input type="checkbox"/> MSDS Information <input type="checkbox"/> RCRA Hazardous Waste Analysis <input type="checkbox"/> Process Knowledge <input type="checkbox"/> Other (Provide description in Box 4)</p>		
GENERATOR 19.15.36.15 WASTE TESTING CERTIFICATION STATEMENT FOR LANDFARMS		
<p>I, Thomas Long <i>Thomas Long</i> 12-3-2020, representative for Enterprise Products Operating authorizes Envirotech, Inc. to complete  <b>Generator Signature</b>          the required testing/sign the Generator Waste Testing Certification.</p> <p>I, <i>Greg Crabtree</i>, representative for <u>Envirotech, Inc.</u> do hereby certify that          representative samples of the oil field waste have been subjected to the paint filter test and tested for chloride content and that the samples          have been found to conform to the specific requirements applicable to landfarms pursuant to Section 15 of 19.15.36 NMAC. The results          of the representative samples are attached to demonstrate the above-described waste conform to the requirements of Section 15 of          19.15.36 NMAC.</p>		
5. Transporter: IMI, Inc.		

### OCD Permitted Surface Waste Management Facility

Name and Facility Permit #: Envirotech Inc. Soil Remediation Facility \* Permit #: NM 01-0011

Address of Facility: Hilltop, NM

Method of Treatment and/or Disposal:

☐ Evaporation ☐ Injection ☐ Treating Plant ☒ Landfarm ☐ Landfill ☐ Other

### Waste Acceptance Status:

☒ APPROVED

☐ DENIED (Must Be Maintained As Permanent Record)

PRINT NAME: Greg Crabtree  
 SIGNATURE: *Greg Crabtree*  
 Surface Waste Management Facility Authorized Agent

TITLE: Enviro Manager DATE: 12/4/20  
 TELEPHONE NO.: 505-632-0615





## APPENDIX D

### Photographic Documentation

## SITE PHOTOGRAPHS

Enterprise Field Services, LLC  
Closure Report  
Lateral C-6 Loop (12/01/20)  
Ensolum Project No. 05A1226128

**Photograph 1**

Photograph Description: View of the release area.

**Photograph 2**

Photograph Description: View of the excavation.

**Photograph 3**

Photograph Description: View of the excavation after initial restoration.







## APPENDIX E

### Regulatory Correspondence

---

**From:** [Long, Thomas](#)  
**To:** ["Smith, Cory, EMNRD"](#); [slandon@blm.gov](mailto:slandon@blm.gov)  
**Cc:** [Stone, Brian](#)  
**Subject:** RE: Lateral 6C Loop - UL D Section 27 T28N R9W; 36.639644 -107.784244  
**Date:** Monday, December 7, 2020 2:36:00 PM  
**Attachments:** [Lateral 6-C Site Drawing.jpg](#)  
[Lateral 6-C.pdf](#)

---

Cory/Sheri,

Please find the attached site sketch and lab report for the Lateral C-6 Loop excavation. All sample results are below NMOCD Tier I remediation standards. Enterprise will backfill the excavation with clean imported fill material. If you have any questions, please call or email.

**Thomas J. Long**  
**Senior Environmental Scientist**  
**Enterprise Products Company**  
**614 Reilly Ave.**  
**Farmington, New Mexico 87401**  
**505-599-2286 (office)**  
**505-215-4727 (Cell)**  
[tjlong@eprod.com](mailto:tjlong@eprod.com)



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**From:** Smith, Cory, EMNRD <Cory.Smith@state.nm.us>  
**Sent:** Friday, December 4, 2020 2:21 PM  
**To:** Long, Thomas <tjlong@eprod.com>; 'slandon@blm.gov' <slandon@blm.gov>  
**Cc:** Stone, Brian <bmstone@eprod.com>  
**Subject:** [EXTERNAL] RE: Lateral 6C Loop - UL D Section 27 T28N R9W; 36.639644 -107.784244

[Use caution with links/attachments]

Tom,

Since an OCD inspector stopped by earlier today and your earlier phone call OCD is ok with Enterprise sampling today with the condition that the Surface Owner is also ok with the accelerated sampling schedule.

Please sample per 19.15.29 NMAC or if need be you can proposed alternative sampling sizes but please include pictures/site sketch so OCD can make a better determination.

Thanks,

**Cory Smith** • Environmental Specialist  
Environmental Bureau



EMNRD - Oil Conservation Division  
1000 Rio Brazos | Aztec, NM 87410  
505.334.6178 x115 | [Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)  
<http://www.emnrd.state.nm.us/OCD/>

---

**From:** Long, Thomas <[tjlong@eprod.com](mailto:tjlong@eprod.com)>  
**Sent:** Friday, December 4, 2020 1:37 PM  
**To:** Smith, Cory, EMNRD <[Cory.Smith@state.nm.us](mailto:Cory.Smith@state.nm.us)>; 'slandon@blm.gov' <[slandon@blm.gov](mailto:slandon@blm.gov)>  
**Cc:** Stone, Brian <[bmstone@eprod.com](mailto:bmstone@eprod.com)>  
**Subject:** [EXT] Lateral 6C Loop - UL D Section 27 T28N R9W; 36.639644 -107.784244

Cory/Sheri,

The email is a notification and a follow up to our phone conversations earlier today. Enterprise had a release of natural gas and natural gas fluids from the Lateral C-6 Loop pipeline on December 3, 2020. Minimal fluids were observed on the ground surface. No washes/waterways were affected. The pipeline was isolated, depressurized, locked and tagged out. Enterprise began the remediation and repairs today and determined this release reportable per NMOCD regulation, due to the volume of impacted subsurface soil. Currently, the excavation is 9 feet long by 6 feet wide by 3 feet deep and ready for closure sampling. Enterprise is requesting a variance from the 48-hour sample notification requirement and requesting to sample today to complete the remediation of this release site. Please acknowledge acceptance of the variance request. If you have any questions, please call or email.

**Thomas J. Long**  
**Senior Environmental Scientist**  
**Enterprise Products Company**  
**614 Reilly Ave.**  
**Farmington, New Mexico 87401**  
**505-599-2286 (office)**  
**505-215-4727 (Cell)**  
[tjlong@eprod.com](mailto:tjlong@eprod.com)



---

This message (including any attachments) is confidential and intended for a specific individual and purpose. If you are not the intended recipient, please notify the sender immediately and delete this message.



## APPENDIX F

### Table 1 – Soil Analytical Summary

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**TABLE 1**  
**Lateral C-6 Loop (12/01/20)**  
**SOIL ANALYTICAL SUMMARY**

Sample I.D.	Date	Sample Type C - Composite G - Grab	Sample Depth (Feet)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH MRO (mg/kg)	Total Combined TPH (GRO/DRO/MRO) (mg/kg)	Chloride (mg/kg)
New Mexico Energy, Mineral & Natural Resources Department Oil Conservation Division Closure Criteria (Tier I)				10	NE	NE	NE	50				100	600
Excavation Composite Soil Samples													
S-1	12.04.20	C	0 to 3	<0.020	<0.040	<0.040	<0.081	ND	<4.0	<10	<50	ND	<61
S-2	12.04.20	C	0 to 3	<0.019	<0.037	<0.037	<0.075	ND	<3.7	<9.6	<48	ND	<61
S-3	12.04.20	C	0 to 3	<0.019	<0.037	<0.037	<0.075	ND	<3.7	<9.5	<47	ND	<60
S-4	12.04.20	C	0 to 3	<0.021	<0.042	<0.042	<0.083	ND	<4.2	<9.8	<49	ND	<61
S-5	12.04.20	C	3	<0.020	<0.041	<0.041	<0.081	ND	<4.1	<9.9	<49	ND	<61

Note: Concentrations in **bold** and yellow exceed the applicable NM EMNRD Closure Criteria

ND = Not Detected above the Practical Quantitation Limits or Reporting Limits

NE = Not established

mg/kg = milligram per kilogram

BTEX = Benzene, Toluene, Ethylbenzene, and Xylenes

TPH = Total Petroleum Hydrocarbon

GRO = Gasoline Range Organics

DRO = Diesel Range Organics

MRO = Motor Oil/Lube Oil Range Organics

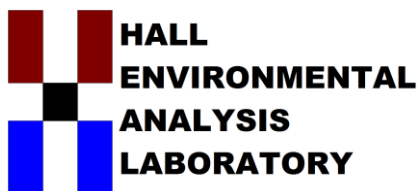


## APPENDIX G

### Laboratory Data Sheets & Chain of Custody Documentation

---





Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: [clients.hallenvironmental.com](http://clients.hallenvironmental.com)

December 09, 2020

Kyle Summers  
ENSOLUM  
606 S. Rio Grande Suite A  
Aztec, NM 87410  
TEL: (903) 821-5603  
FAX:

RE: Lateral C-6

OrderNo.: 2012298

Dear Kyle Summers:

Hall Environmental Analysis Laboratory received 5 sample(s) on 12/5/2020 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued December 08, 2020.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to [www.hallenvironmental.com](http://www.hallenvironmental.com) or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman".

Andy Freeman  
Laboratory Manager  
4901 Hawkins NE  
Albuquerque, NM 87109

## Analytical Report

Lab Order 2012298

Date Reported: 12/9/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-1

Project: Lateral C-6

Collection Date: 12/4/2020 1:00:00 PM

Lab ID: 2012298-001

Matrix: MEOH (SOIL)

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	61		mg/Kg	20	12/7/2020 11:42:41 AM	56826
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.0		mg/Kg	1	12/5/2020 11:28:56 AM	G73810
Surr: BFB	104	70-130		%Rec	1	12/5/2020 11:28:56 AM	G73810
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	12/5/2020 12:47:21 PM	56811
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	12/5/2020 12:47:21 PM	56811
Surr: DNOP	83.9	30.4-154		%Rec	1	12/5/2020 12:47:21 PM	56811
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.020		mg/Kg	1	12/5/2020 11:28:56 AM	S73810
Toluene	ND	0.040		mg/Kg	1	12/5/2020 11:28:56 AM	S73810
Ethylbenzene	ND	0.040		mg/Kg	1	12/5/2020 11:28:56 AM	S73810
Xylenes, Total	ND	0.081		mg/Kg	1	12/5/2020 11:28:56 AM	S73810
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	12/5/2020 11:28:56 AM	S73810
Surr: 4-Bromofluorobenzene	99.8	70-130		%Rec	1	12/5/2020 11:28:56 AM	S73810
Surr: Dibromofluoromethane	111	70-130		%Rec	1	12/5/2020 11:28:56 AM	S73810
Surr: Toluene-d8	100	70-130		%Rec	1	12/5/2020 11:28:56 AM	S73810

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2012298

Date Reported: 12/9/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-2

Project: Lateral C-6

Collection Date: 12/4/2020 1:05:00 PM

Lab ID: 2012298-002

Matrix: MEOH (SOIL)

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	61		mg/Kg	20	12/7/2020 11:55:05 AM	56826
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	12/5/2020 11:57:33 AM	G73810
Surr: BFB	111	70-130		%Rec	1	12/5/2020 11:57:33 AM	G73810
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.6		mg/Kg	1	12/5/2020 1:58:28 PM	56811
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	12/5/2020 1:58:28 PM	56811
Surr: DNOP	88.7	30.4-154		%Rec	1	12/5/2020 1:58:28 PM	56811
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.019		mg/Kg	1	12/5/2020 11:57:33 AM	S73810
Toluene	ND	0.037		mg/Kg	1	12/5/2020 11:57:33 AM	S73810
Ethylbenzene	ND	0.037		mg/Kg	1	12/5/2020 11:57:33 AM	S73810
Xylenes, Total	ND	0.075		mg/Kg	1	12/5/2020 11:57:33 AM	S73810
Surr: 1,2-Dichloroethane-d4	103	70-130		%Rec	1	12/5/2020 11:57:33 AM	S73810
Surr: 4-Bromofluorobenzene	100	70-130		%Rec	1	12/5/2020 11:57:33 AM	S73810
Surr: Dibromofluoromethane	109	70-130		%Rec	1	12/5/2020 11:57:33 AM	S73810
Surr: Toluene-d8	103	70-130		%Rec	1	12/5/2020 11:57:33 AM	S73810

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

Page 2 of 10

## Analytical Report

Lab Order 2012298

Date Reported: 12/9/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-3

Project: Lateral C-6

Collection Date: 12/4/2020 1:10:00 PM

Lab ID: 2012298-003

Matrix: MEOH (SOIL)

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	60		mg/Kg	20	12/7/2020 12:07:30 PM	56826
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	3.7		mg/Kg	1	12/5/2020 12:26:12 PM	G73810
Surr: BFB	106	70-130		%Rec	1	12/5/2020 12:26:12 PM	G73810
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	12/5/2020 5:55:53 PM	56811
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	12/5/2020 5:55:53 PM	56811
Surr: DNOP	91.5	30.4-154		%Rec	1	12/5/2020 5:55:53 PM	56811
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.019		mg/Kg	1	12/5/2020 12:26:12 PM	S73810
Toluene	ND	0.037		mg/Kg	1	12/5/2020 12:26:12 PM	S73810
Ethylbenzene	ND	0.037		mg/Kg	1	12/5/2020 12:26:12 PM	S73810
Xylenes, Total	ND	0.075		mg/Kg	1	12/5/2020 12:26:12 PM	S73810
Surr: 1,2-Dichloroethane-d4	107	70-130		%Rec	1	12/5/2020 12:26:12 PM	S73810
Surr: 4-Bromofluorobenzene	102	70-130		%Rec	1	12/5/2020 12:26:12 PM	S73810
Surr: Dibromofluoromethane	114	70-130		%Rec	1	12/5/2020 12:26:12 PM	S73810
Surr: Toluene-d8	97.7	70-130		%Rec	1	12/5/2020 12:26:12 PM	S73810

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



## Analytical Report

Lab Order 2012298

Date Reported: 12/9/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-4

Project: Lateral C-6

Collection Date: 12/4/2020 1:15:00 PM

Lab ID: 2012298-004

Matrix: MEOH (SOIL)

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	61		mg/Kg	20	12/7/2020 12:19:55 PM	56826
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.2		mg/Kg	1	12/5/2020 12:54:53 PM	G73810
Surr: BFB	106	70-130		%Rec	1	12/5/2020 12:54:53 PM	G73810
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/5/2020 6:19:23 PM	56811
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/5/2020 6:19:23 PM	56811
Surr: DNOP	91.0	30.4-154		%Rec	1	12/5/2020 6:19:23 PM	56811
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.021		mg/Kg	1	12/5/2020 12:54:53 PM	S73810
Toluene	ND	0.042		mg/Kg	1	12/5/2020 12:54:53 PM	S73810
Ethylbenzene	ND	0.042		mg/Kg	1	12/5/2020 12:54:53 PM	S73810
Xylenes, Total	ND	0.083		mg/Kg	1	12/5/2020 12:54:53 PM	S73810
Surr: 1,2-Dichloroethane-d4	108	70-130		%Rec	1	12/5/2020 12:54:53 PM	S73810
Surr: 4-Bromofluorobenzene	104	70-130		%Rec	1	12/5/2020 12:54:53 PM	S73810
Surr: Dibromofluoromethane	113	70-130		%Rec	1	12/5/2020 12:54:53 PM	S73810
Surr: Toluene-d8	97.7	70-130		%Rec	1	12/5/2020 12:54:53 PM	S73810

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		

## Analytical Report

Lab Order 2012298

Date Reported: 12/9/2020

## Hall Environmental Analysis Laboratory, Inc.

CLIENT: ENSOLUM

Client Sample ID: S-5

Project: Lateral C-6

Collection Date: 12/4/2020 1:20:00 PM

Lab ID: 2012298-005

Matrix: MEOH (SOIL)

Received Date: 12/5/2020 8:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
<b>EPA METHOD 300.0: ANIONS</b>							Analyst: <b>VP</b>
Chloride	ND	61		mg/Kg	20	12/7/2020 12:32:19 PM	56826
<b>EPA METHOD 8015D MOD: GASOLINE RANGE</b>							Analyst: <b>DJF</b>
Gasoline Range Organics (GRO)	ND	4.1		mg/Kg	1	12/5/2020 1:23:41 PM	G73810
Surr: BFB	104	70-130		%Rec	1	12/5/2020 1:23:41 PM	G73810
<b>EPA METHOD 8015M/D: DIESEL RANGE ORGANICS</b>							Analyst: <b>mb</b>
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/5/2020 3:09:55 PM	56811
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/5/2020 3:09:55 PM	56811
Surr: DNOP	91.8	30.4-154		%Rec	1	12/5/2020 3:09:55 PM	56811
<b>EPA METHOD 8260B: VOLATILES SHORT LIST</b>							Analyst: <b>DJF</b>
Benzene	ND	0.020		mg/Kg	1	12/5/2020 1:23:41 PM	S73810
Toluene	ND	0.041		mg/Kg	1	12/5/2020 1:23:41 PM	S73810
Ethylbenzene	ND	0.041		mg/Kg	1	12/5/2020 1:23:41 PM	S73810
Xylenes, Total	ND	0.081		mg/Kg	1	12/5/2020 1:23:41 PM	S73810
Surr: 1,2-Dichloroethane-d4	106	70-130		%Rec	1	12/5/2020 1:23:41 PM	S73810
Surr: 4-Bromofluorobenzene	101	70-130		%Rec	1	12/5/2020 1:23:41 PM	S73810
Surr: Dibromofluoromethane	115	70-130		%Rec	1	12/5/2020 1:23:41 PM	S73810
Surr: Toluene-d8	98.4	70-130		%Rec	1	12/5/2020 1:23:41 PM	S73810

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

<b>Qualifiers:</b>	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	PQL	Practical Quantitative Limit	RL	Reporting Limit
	S	% Recovery outside of range due to dilution or matrix		



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2012298

09-Dec-20

**Client:** ENSOLUM**Project:** Lateral C-6

Sample ID: <b>MB-56826</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>PBS</b>	Batch ID: <b>56826</b>	RunNo: <b>73830</b>								
Prep Date: <b>12/7/2020</b>	Analysis Date: <b>12/7/2020</b>	SeqNo: <b>2604047</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID: <b>LCS-56826</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 300.0: Anions</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>56826</b>	RunNo: <b>73830</b>								
Prep Date: <b>12/7/2020</b>	Analysis Date: <b>12/7/2020</b>	SeqNo: <b>2604048</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	90.6	90	110			

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2012298

09-Dec-20

Client: ENSOLUM

Project: Lateral C-6

Sample ID: <b>MB-56811</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>PBS</b>	Batch ID: <b>56811</b>	RunNo: <b>73818</b>								
Prep Date: <b>12/5/2020</b>	Analysis Date: <b>12/5/2020</b>	SeqNo: <b>2602395</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Motor Oil Range Organics (MRO)	ND	50								
Surr: DNOP	7.3		10.00		73.1	30.4	154			

Sample ID: <b>LCS-56811</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>56811</b>	RunNo: <b>73818</b>								
Prep Date: <b>12/5/2020</b>	Analysis Date: <b>12/5/2020</b>	SeqNo: <b>2602396</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	85.5	70	130			
Surr: DNOP	3.3		5.000		65.2	30.4	154			

Sample ID: <b>2012298-001AMS</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>S-1</b>	Batch ID: <b>56811</b>	RunNo: <b>73818</b>								
Prep Date: <b>12/5/2020</b>	Analysis Date: <b>12/5/2020</b>	SeqNo: <b>2602397</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	9.6	47.89	3.091	89.9	15	184			
Surr: DNOP	4.1		4.789		85.8	30.4	154			

Sample ID: <b>2012298-001AMSD</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8015M/D: Diesel Range Organics</b>								
Client ID: <b>S-1</b>	Batch ID: <b>56811</b>	RunNo: <b>73818</b>								
Prep Date: <b>12/5/2020</b>	Analysis Date: <b>12/5/2020</b>	SeqNo: <b>2602398</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	9.4	47.04	3.091	85.3	15	184	6.60	23.9	
Surr: DNOP	4.1		4.704		87.4	30.4	154	0	0	

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit



**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2012298

09-Dec-20

Client: ENSOLUM

Project: Lateral C-6

Sample ID: <b>mb1</b>	SampType: <b>MBLK</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>PBS</b>	Batch ID: <b>S73810</b>	RunNo: <b>73810</b>								
Prep Date:	Analysis Date: <b>12/5/2020</b>	SeqNo: <b>2601700</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 1,2-Dichloroethane-d4	0.50		0.5000		100	70	130			
Surr: 4-Bromofluorobenzene	0.51		0.5000		103	70	130			
Surr: Dibromofluoromethane	0.53		0.5000		106	70	130			
Surr: Toluene-d8	0.48		0.5000		96.6	70	130			

Sample ID: <b>100ng lcs</b>	SampType: <b>LCS</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>LCSS</b>	Batch ID: <b>S73810</b>	RunNo: <b>73810</b>								
Prep Date:	Analysis Date: <b>12/5/2020</b>	SeqNo: <b>2601701</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.025	1.000	0	99.3	70	130			
Toluene	0.95	0.050	1.000	0	94.9	70	130			
Surr: 1,2-Dichloroethane-d4	0.52		0.5000		104	70	130			
Surr: 4-Bromofluorobenzene	0.50		0.5000		100	70	130			
Surr: Dibromofluoromethane	0.50		0.5000		99.9	70	130			
Surr: Toluene-d8	0.48		0.5000		95.4	70	130			

Sample ID: <b>2012298-001ams</b>	SampType: <b>MS</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>S-1</b>	Batch ID: <b>S73810</b>	RunNo: <b>73810</b>								
Prep Date:	Analysis Date: <b>12/5/2020</b>	SeqNo: <b>2601703</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.81	0.020	0.8084	0	100	67.9	137			
Toluene	0.79	0.040	0.8084	0.005497	96.6	70	130			
Surr: 1,2-Dichloroethane-d4	0.45		0.4042		111	70	130			
Surr: 4-Bromofluorobenzene	0.42		0.4042		104	70	130			
Surr: Dibromofluoromethane	0.41		0.4042		103	70	130			
Surr: Toluene-d8	0.39		0.4042		95.5	70	130			

Sample ID: <b>2012298-001amsd</b>	SampType: <b>MSD</b>	TestCode: <b>EPA Method 8260B: Volatiles Short List</b>								
Client ID: <b>S-1</b>	Batch ID: <b>S73810</b>	RunNo: <b>73810</b>								
Prep Date:	Analysis Date: <b>12/5/2020</b>	SeqNo: <b>2601704</b>	Units: <b>mg/Kg</b>							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.77	0.020	0.8084	0	95.4	67.9	137	4.88	20	
Toluene	0.73	0.040	0.8084	0.005497	90.0	70	130	7.05	20	

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 2012298  
09-Dec-20

Client: ENSOLUM  
Project: Lateral C-6

Sample ID: 2012298-001amsd		SampType: MSD		TestCode: EPA Method 8260B: Volatiles Short List						
Client ID: S-1		Batch ID: S73810		RunNo: 73810						
Prep Date:		Analysis Date: 12/5/2020		SeqNo: 2601704		Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 1,2-Dichloroethane-d4	0.45		0.4042		110	70	130	0	0	
Surr: 4-Bromofluorobenzene	0.43		0.4042		107	70	130	0	0	
Surr: Dibromofluoromethane	0.44		0.4042		108	70	130	0	0	
Surr: Toluene-d8	0.39		0.4042		96.8	70	130	0	0	

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quantitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

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**QC SUMMARY REPORT****Hall Environmental Analysis Laboratory, Inc.**

WO#: 2012298

09-Dec-20

Client: ENSOLUM

Project: Lateral C-6

Sample ID: <b>mb1</b>	SampType: <b>MBLK</b>			TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>						
Client ID: <b>PBS</b>	Batch ID: <b>G73810</b>			RunNo: <b>73810</b>						
Prep Date:	Analysis Date: <b>12/5/2020</b>			SeqNo: <b>2601720</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	530		500.0		105	70	130			

Sample ID: <b>2.5ug gro lcs</b>	SampType: <b>LCS</b>			TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>						
Client ID: <b>LCSS</b>	Batch ID: <b>G73810</b>			RunNo: <b>73810</b>						
Prep Date:	Analysis Date: <b>12/5/2020</b>			SeqNo: <b>2601721</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	23	5.0	25.00	0	92.4	70	130			
Surr: BFB	530		500.0		106	70	130			

Sample ID: <b>2012298-002ams</b>	SampType: <b>MS</b>			TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>						
Client ID: <b>S-2</b>	Batch ID: <b>G73810</b>			RunNo: <b>73810</b>						
Prep Date:	Analysis Date: <b>12/5/2020</b>			SeqNo: <b>2601724</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	17	3.7	18.74	1.064	83.2	49.2	122			
Surr: BFB	380		374.8		103	70	130			

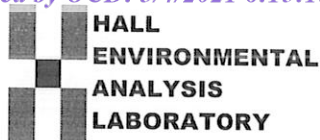
Sample ID: <b>2012298-002amsd</b>	SampType: <b>MSD</b>			TestCode: <b>EPA Method 8015D Mod: Gasoline Range</b>						
Client ID: <b>S-2</b>	Batch ID: <b>G73810</b>			RunNo: <b>73810</b>						
Prep Date:	Analysis Date: <b>12/5/2020</b>			SeqNo: <b>2601725</b>		Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	16	3.7	18.74	1.064	78.4	49.2	122	5.46	20	
Surr: BFB	380		374.8		103	70	130	0	0	

**Qualifiers:**

\* Value exceeds Maximum Contaminant Level.  
D Sample Diluted Due to Matrix  
H Holding times for preparation or analysis exceeded  
ND Not Detected at the Reporting Limit  
PQL Practical Quantitative Limit  
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank  
E Value above quantitation range  
J Analyte detected below quantitation limits  
P Sample pH Not In Range  
RL Reporting Limit

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Hall Environmental Analysis Laboratory  
4901 Hawkins NE  
Albuquerque, NM 87109  
TEL: 505-345-3975 FAX: 505-345-4107  
Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: **ENSOLUM**Work Order Number: **2012298**RcptNo: **1**Received By: **Cheyenne Cason** 12/5/2020 8:00:00 AMCompleted By: **Cheyenne Cason** 12/5/2020 8:31:43 AMReviewed By: **EM 12/5/20**

### Chain of Custody

1. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
2. How was the sample delivered? Courier

### Log In

3. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
4. Were all samples received at a temperature of  $>0^{\circ}\text{C}$  to  $6.0^{\circ}\text{C}$ ? Yes ☒ No ☐ NA ☐
5. Sample(s) in proper container(s)? Yes ☒ No ☐
6. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
7. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
8. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
9. Received at least 1 vial with headspace  $<1/4$ " for AQ VOA? Yes ☐ No ☐ NA ☒
10. Were any sample containers received broken? Yes ☐ No ☒
11. Does paperwork match bottle labels?  
(Note discrepancies on chain of custody) Yes ☒ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
13. Is it clear what analyses were requested? Yes ☒ No ☐
14. Were all holding times able to be met?  
(If no, notify customer for authorization.) Yes ☒ No ☐

# of preserved  
bottles checked  
for pH:

(<2 or >12 unless noted)

Adjusted? \_\_\_\_\_

Checked by: **SGE 12/5/20**

### Special Handling (if applicable)

15. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Whom: \_\_\_\_\_

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: \_\_\_\_\_

Client Instructions: \_\_\_\_\_

16. Additional remarks:

### 17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.1	Good	Yes			



[www.hallenvironmental.com](http://www.hallenvironmental.com)

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

## Analysis Request

Chain-of-Custody Record									
Client: <u>Enasolun LLC</u>		Turn-Around Time: <u>100%</u> <u>Same Day</u>		<input type="checkbox"/> Standard <input checked="" type="checkbox"/> Rush <u>12-7-20</u>					
Mailing Address: <u>606 S Rio Grande</u>		Project Name: <u>Cotera 16-C</u>							
Phone #: <u>Suit A</u>		Project #: <u>05A1020128</u>							
email or Fax#:		Project Manager: <u>K Summers</u>							
QA/QC Package:		<input type="checkbox"/> Standard <input type="checkbox"/> Level 4 (Full Validation)							
Accreditation: <input type="checkbox"/> Az Compliance		Sampler: <u>DDAgent;</u>							
<input type="checkbox"/> NELAC <input type="checkbox"/> Other		On Ice: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No							
<input type="checkbox"/> EDD (Type) _____		# of Coolers: <u>1</u>							
		Cooler Temp (including CF): <u>2.1 ± 0.2</u> (°C)							
Date	Time	Matrix	Sample Name	Container Type and #	Preservative Type	HEAL No.			
<u>12/4</u>	<u>1300</u>	<u>S</u>	<u>S-1</u>	<u>1402</u>	<u>Pool</u>	<u>2012248</u>			
<u>12/4</u>	<u>1305</u>	<u>S</u>	<u>S-2</u>		<u>Pool</u>	<u>001</u>			
<u>12/4</u>	<u>1310</u>	<u>S</u>	<u>S-3</u>		<u>Pool</u>	<u>002</u>			
<u>12/4</u>	<u>1315</u>	<u>S</u>	<u>S-4</u>		<u>Pool</u>	<u>003</u>			
<u>12/4</u>	<u>1320</u>	<u>S</u>	<u>S-5</u>		<u>Pool</u>	<u>004</u>			
						<u>005</u>			
Date: <u>12/4/20</u>	Time: <u>1547</u>	Relinquished by: <u>[Signature]</u>		Received by: <u>[Signature]</u>		Via: _____	Date: <u>12/4/2020</u>	Time: <u>1547</u>	
Date: <u>12/4/20</u>	Time: <u>1811</u>	Relinquished by: <u>[Signature]</u>		Received by: _____		Via: _____	Date: _____	Time: _____	

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

**District I**  
1625 N. French Dr., Hobbs, NM 88240  
Phone:(575) 393-6161 Fax:(575) 393-0720  
**District II**  
811 S. First St., Artesia, NM 88210  
Phone:(575) 748-1283 Fax:(575) 748-9720  
**District III**  
1000 Rio Brazos Rd., Aztec, NM 87410  
Phone:(505) 334-6178 Fax:(505) 334-6170  
**District IV**  
1220 S. St Francis Dr., Santa Fe, NM 87505  
Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico**  
**Energy, Minerals and Natural Resources**  
**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
**Santa Fe, NM 87505**

CONDITIONS  
  
Action 19644

CONDITIONS

Operator: Enterprise Field Services, LLC PO Box 4324 Houston, TX 77210	OGRID: 241602
	Action Number: 19644
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	None	1/24/2022